STR-DE197

SERVICE MANUAL

Ver. 1.5 2007. 05

US Model
Canadian Model
AEP Model



Photo: Black type

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(Models of area code US only)
With 8 ohm loads, both channels driven, from 20 – 20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

POWER OUTPUT
Models of area code US, CND
Power Output at Stereo Mode
(8 ohms 1 kHz, THD 0.7 %)
125 W + 125 W 1)

Models of area code AEP
Power Output at Stereo Mode
(8 ohms 1 kHz, THD 0.7 %)
100 W + 100 W 1)

1) Measured under the following conditions:

Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP	230 V AC, 50 Hz

Frequency response

CD, MD/TAPE, VIDEO 1, 2	20 Hz – 50 kHz +0/–0.5 dB (with bass boost and tone bypassed)

Inputs (Analog)

CD, MD/TAPE, VIDEO 1, 2	Sensitivity: 500 mV Impedance: 50 kilohms S/N 2) : 85 dB (A, 500 mV 3))

2) INPUT SHORT (with bass boost and tone bypassed).
3) Weighted network, input level.

Outputs (Analog)

MD/TAPE (OUT), VIDEO 1 (AUDIO OUT)	Voltage: 500 mV Impedance: 10 kilohms

Bass Boost: +8 dB at 70 Hz
Tone: ±10 dB at 100 Hz and 10 kHz

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz
Sensitivity	
Mono:	18.3 dBf, 2.2 µV/75 ohms
Stereo:	38.3 dBf, 22.5 µV/75 ohms
Usable sensitivity	11.2 dBf, 1 µV/75 ohms
S/N	
Mono:	76 dB
Stereo:	70 dB
Harmonic distortion at 1 kHz	
Mono:	0.3%
Stereo:	0.5%
Separation	45 dB at 1 kHz
Frequency response	30 Hz – 15 kHz, +0.5/–2 dB
Selectivity	60 dB at 400 kHz

– Continued on next page –

FM STEREO/FM-AM RECEIVER

9-877-864-06 **Sony Corporation**
2007E04-1 **Home Audio Division**
Published by Sony Techno Create Corporation

SONY®

AM tuner section

Tuning range
  Models of area code US, CND
  With 10-kHz tuning scale: 530 – 1,710 kHz [4)]
  With 9-kHz tuning scale: 531 – 1,710 kHz [4)]

  Models of area code AEP
  With 9-kHz tuning scale: 531 – 1,602 kHz

Antenna	Loop antenna
Intermediate frequency	450 kHz
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5 % (50 mV/m, 400 Hz)
Selectivity	
At 9 kHz:	35 dB
At 10 kHz:	40 dB

4) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. Hold down PRESET TUNING + and press I/⏻. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

General

Power requirements

Area code	Power consumption
US, CND	120 V AC, 60 Hz
AEP	230 V AC, 50/60 Hz

Power consumption

Area code	Power consumption
US	190 W
CND	270 VA
AEP	210 W

Power consumption (during standby mode)
0.5 W

AC outlets

Area code	AC outlets
US, CND	1 switched, 120 W/1A MAX
AEP	1 switched, 100 W MAX

Dimensions	430 × 132.5 × 302 mm (17 × 5 1/4 × 11 7/8 inches) including projecting parts and controls
Mass (Approx.)	7.0 kg (15 lb 7 oz)

Supplied accessories

FM wire antenna (1)
AM loop antenna (1)
Remote commander RM-U185 (1)
R6 (size-AA) batteries (2)

Design and specifications are subject to change without notice.

• Abbreviation
  CND: Canadian model

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

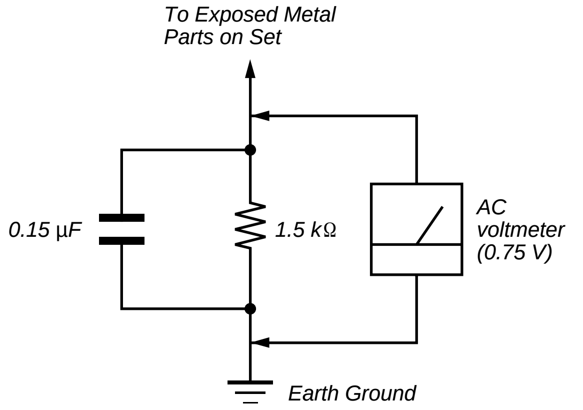


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

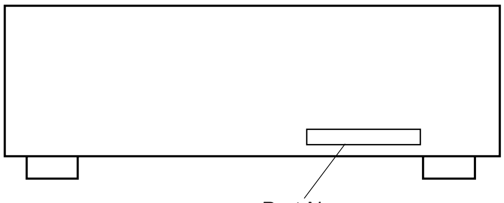
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

— BACK PANEL —



MODEL	PART No.
US	4-253-299-0☐
AEP	4-253-299-1☐
CND	4-253-299-3☐

• Abbreviation
CND: Canadian model

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SECTION 1
GENERAL

This section is extracted from instruction manual.

List of button locations and reference pages

How to use page 28 and 29

Use this page to find the location of buttons that are mentioned in the text.

Illustration number ↓
DISPLAY [6] (13, 15)
↑ Name of button/part ↑ Reference page

Main unit

ALPHABETICAL ORDER

A - L

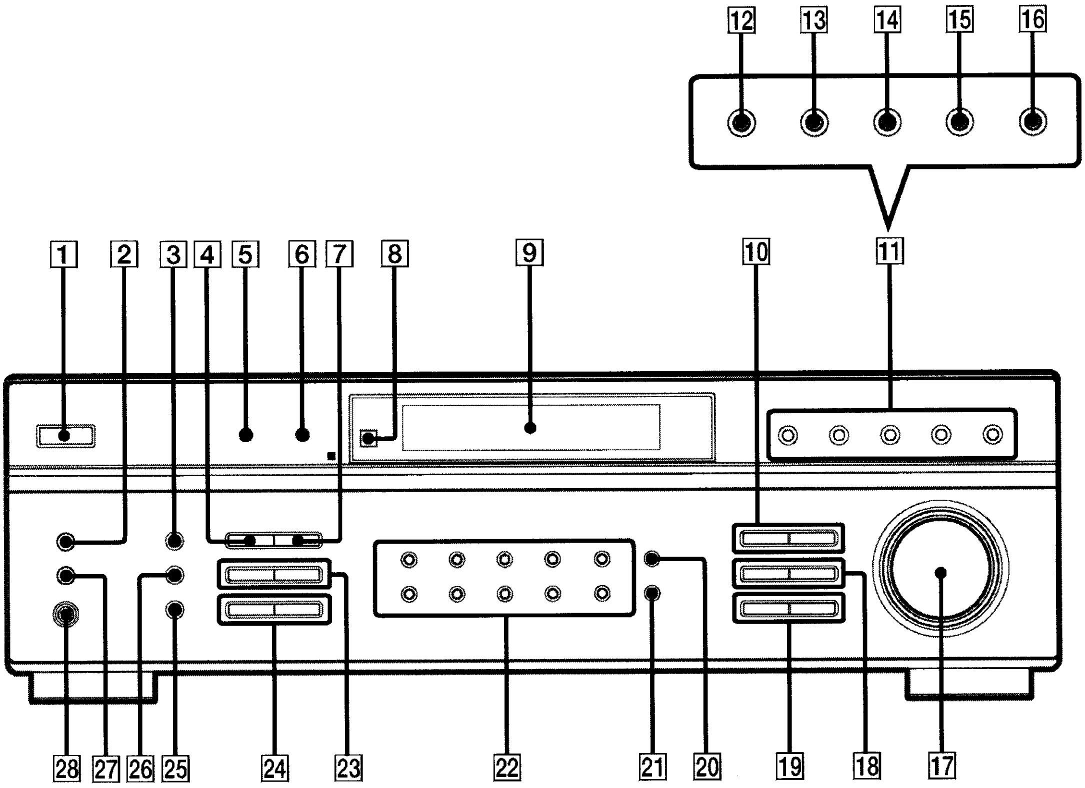
AM [7] (10, 11)
BALANCE L/R [10] (15)
BASS –/+ [19] (15)
BASS BOOST (button/indicator) [5] (15)
CD [15] (6, 10)
DIRECT [21] (11)
DISPLAY [6] (13, 15)
Display [9] (13, 15)
FM [4] (10, 11)
FM MODE [3] (10)
Input buttons [11] (6, 10, 16)
IR (receptor) [8] (19, 25)

M - Z

MASTER VOLUME –/+ [17] (9, 10, 24)
MD/TAPE [14] (6, 10)
MEMORY/ENTER [25] (11, 12, 16)
NAME [26] (16)
Numeric buttons [22] (11, 12)
PHONES (jack) [28] (10, 24)
PRESET TUNING –/+ [23] (12, 26)
SHIFT [20] (12)
SPEAKER A (button/indicator) [2] (8, 10, 17, 24)
SPEAKER B (button/indicator) [27] (8, 10, 17, 24)
TREBLE –/+ [18] (15)
TUNER [16] (6, 10, 11, 12, 16)
TUNING/CHAR –/+ [24] (10, 16)
VIDEO 1 [12] (10)
VIDEO 2 [13] (6, 10)

NUMBERS AND SYMBOLS

I/⏻ (power) [1] (9, 11, 26)



1
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28

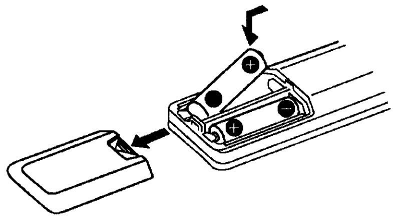
Operations Using the Remote RM-U185

You can use the remote RM-U185 to operate the components in your system.

Before you use your remote

Inserting batteries into the remote

Insert R6 (size-AA) batteries with the + and – properly oriented in the battery compartment. When using the remote, point it at the remote sensor ■ on the receiver.



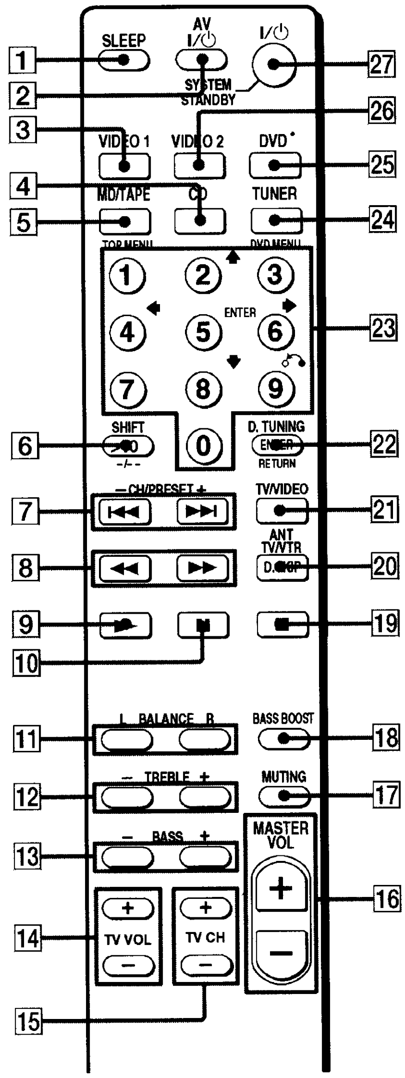
Tip

Under normal conditions, the batteries should last for about 6 months. When the remote no longer operates the receiver, replace all batteries with new ones.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Remote button description



The tables below show the settings of each button.

Remote Button	Operations	Function
ANT TV/VTR 20	VCR	Selects output signal from the antenna terminal: TV signal or VCR program.

continued

SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

SET

↓

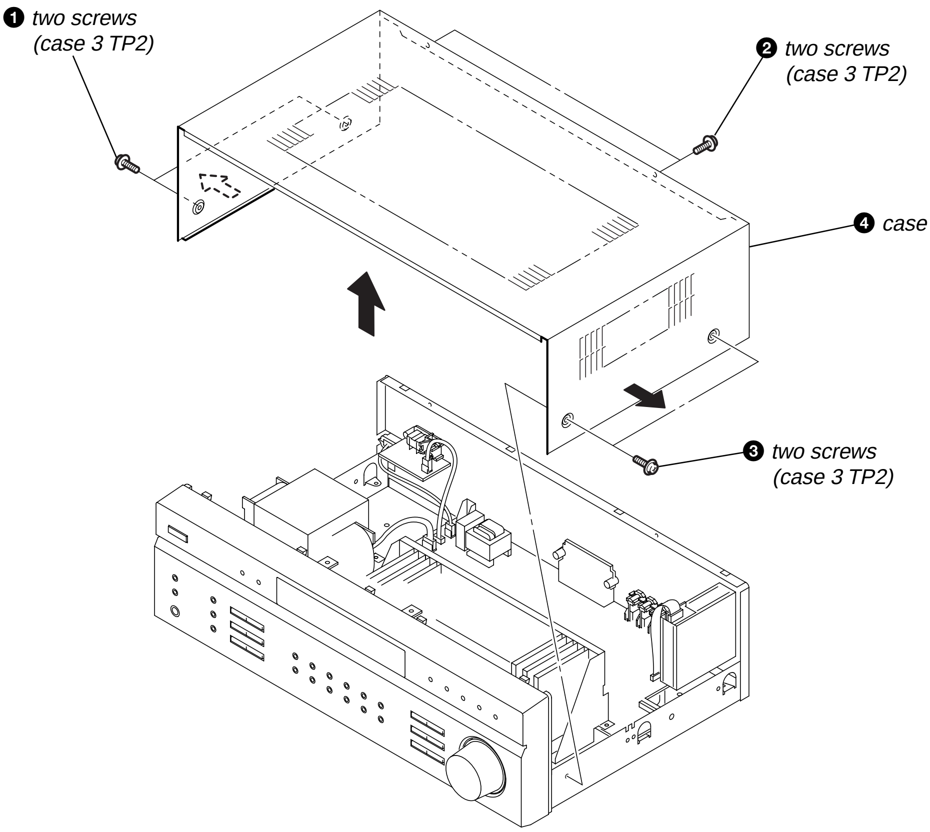
2-1. CASE (Page 7)

↓

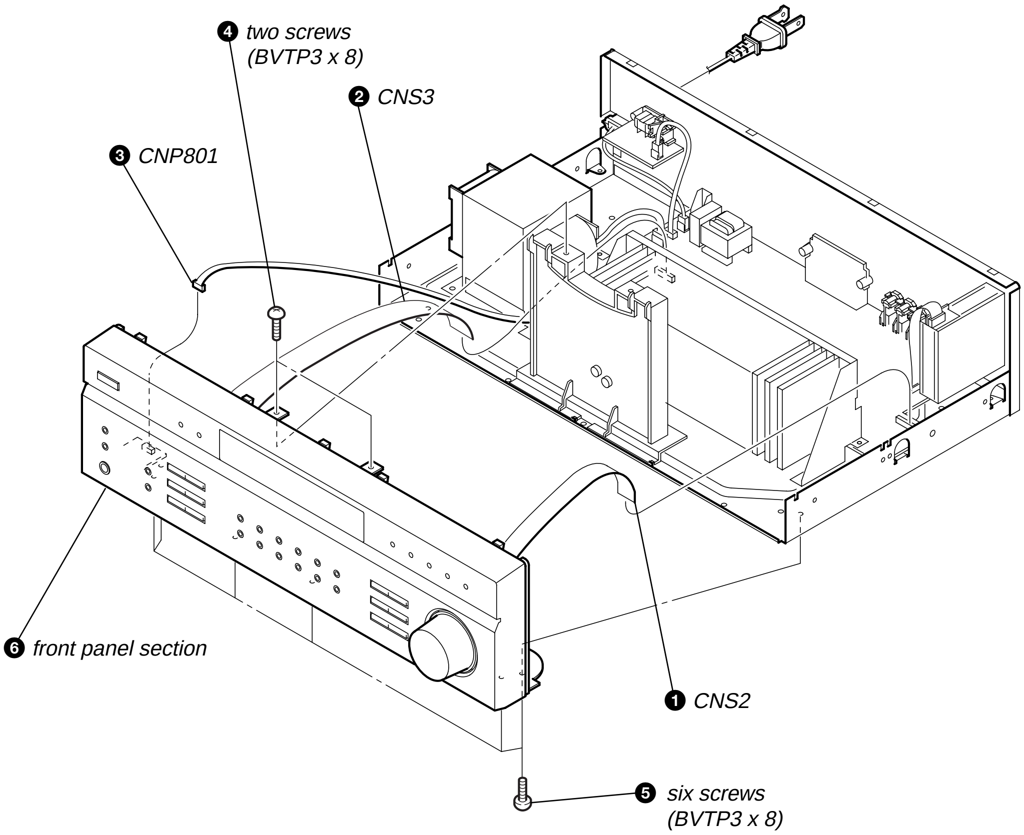
2-2. FRONT PANEL SECTION (Page 8) | *2-3. BACK PANEL (Page 8)* | *2-4. MAIN BOARD (Page 9)*

Note : Follow the disassembly procedure in the numerical order given.

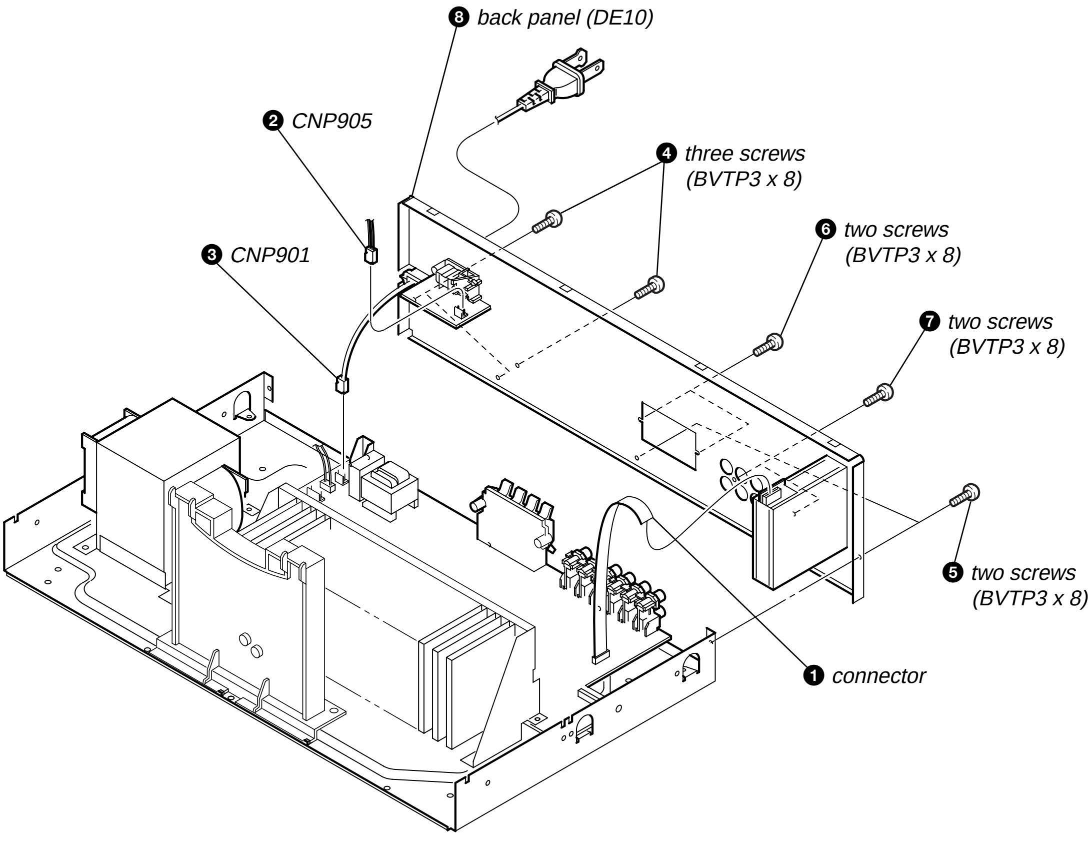
2-1. CASE



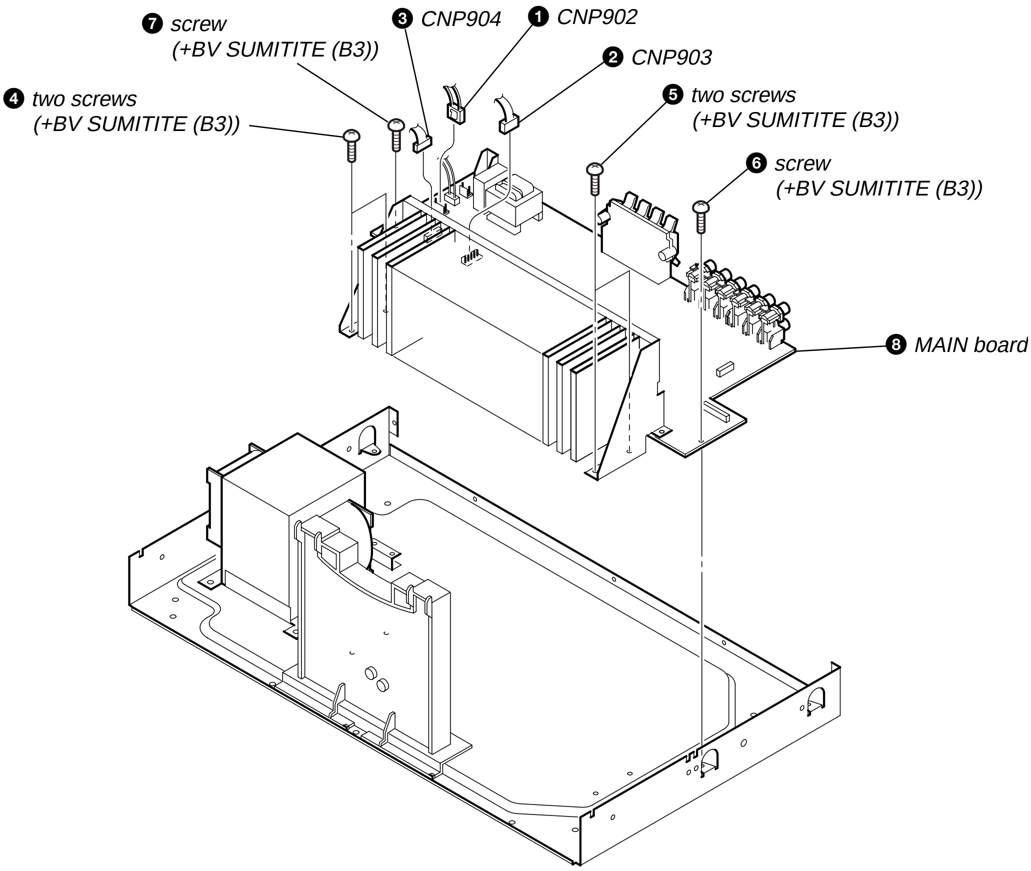
2-2. FRONT PANEL SECTION



2-3. BACK PANEL



2-4. MAIN BOARD



SECTION 3
TEST MODE

Fluorescent Indicator Tube Test Mode

All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

1. While depressing the [VIDEO 1], [VIDEO 2], [MD/TAPE], [CD] and the [TUNER] buttons simultaneously, press the [I/⏻] button to turn on the main power.
2. The FL tube will illuminate in half light on. The following display will be repeated whenever the five function buttons are pressed.

• Operation of function buttons

all light on → half light on 1 → half light on 2 → all light off (→ returns to all light on)

3. Press any button other than the function buttons to release the check mode.

AUTO-BETICAL Check Mode (AEP model)

To auto-scanning and memories of RDS station.

Procedure:

1. While depressing the [MEMORY/ENTER] button, press the [I/⏻] button to turn on the main power.
2. The message “AUTO-BETICAL SELECT” are scrolled for a moment and the receiver starts scanning.

AM Tuning Interval Selection Mode (US, Canadian model)

Either 9 kHz step or 10 kHz step can be selected for the AM tuning interval.

Procedure:

1. While depressing the [PRESET TUNING +] button or the [TUNING/CHAR +] button, press the [I/⏻] button to turn on the main power.
2. Either the message “9k STEP” or “10k STEP” appears for a moment and select the desired step.

Software Version Display Mode

The software version is displayed.

Procedure:

1. While depressing the [SPEAKER B] and the [VIDEO 1] buttons simultaneously, press the [I/⏻] button to turn on the main power.
2. The destination and the software version are displayed for a moment.

ex.) US, Canadian model : U *.**
AEP model : CE *.**

(U / CE: Area; *.**: Software version)

SECTION 4
DIAGRAMS

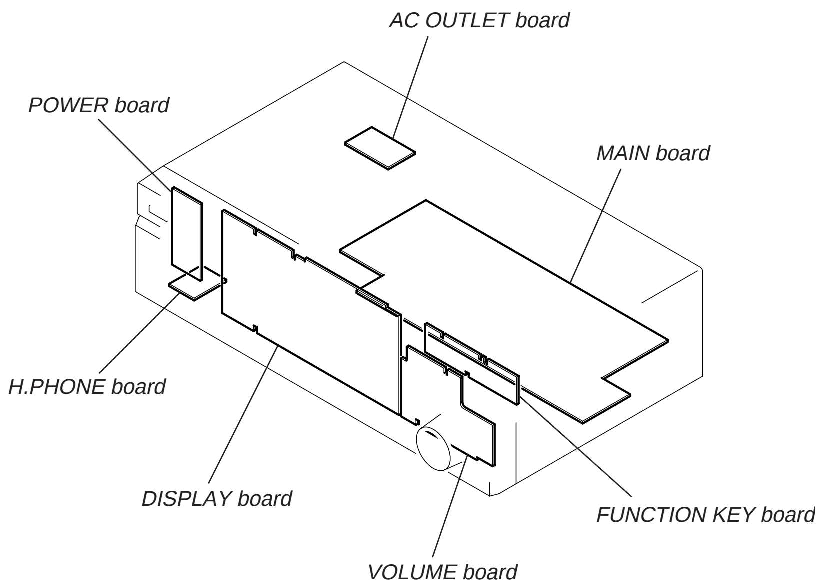
4-1. IC PIN DESCRIPTION

• IC201 μPD78045FGF-134-3B9 (SYSTEM CONTROLLER, FL DISPLAY DRIVER)

Pin No.	Pin Name	I/O	Pin Description
1 to 7	DIG7 to DIG1	O	Digit drive signal output to the vacuum fluorescent display (FL201).
8	+5V	—	Power supply pin (+5 V)
9	CL	O	Serial clock signal output to FM/AM tuner pack.
10	DO	O	Serial data signal output to FM/AM tuner pack.
11	DI	I	Serial data signal input from FM/AM tuner pack.
12	CE	O	Serial chip enable signal output to FM/AM tuner pack.
13	VOL DATA	O	Serial data signal output to sound control IC.
14	VOL CL	O	Serial clock signal output to sound control IC.
15	RDS DATA	I	RDS data signal input from FM/AM tuner pack. (AEP model only)
16	PROTECTOR	I	Overload detection signal input
17	$\overline{\text{RESET}}$	I	Reset signal input
18	TUNED	I	TUNED indicator detection signal input from FM/AM tuner pack.
19	STEREO	I	STEREO indicator detection signal input from FM/AM tuner pack.
20	AVSS	—	Analog ground
21	VERSION	I	Destination select signal input (Fixed at H: US, Canadian model, L: AEP model)
22	FM SIGNAL OUT	I	FM/AM signal meter voltage detection signal input from FM/AM tuner pack. (AEP model only)
23 to 28	AD6 to AD1	I	Function keys signal input
29	AVDD	—	A/D converter power supply pin (+5 V)
30	AV.REF	—	A/D converter reference voltage input (+5 V)
31	—	—	Not used. (Connect to AV.REF pin in this set)
32	OPEN	—	Not used. (Open)
33	GND	—	Ground
34	X1	I	Master clock input (4.19 MHz)
35	X2	O	Master clock output (4.19 MHz)
36	REC SW1	O	VIDEO 1 ON/OFF signal output
37	REC SW2	O	MD/TAPE ON/OFF signal output
38, 39	VOL A, VOL B	I	Master volume JOG data input A, B
40	FUNC.MUTE	O	Not used. (Fixed at L in this set)
41	CK	O	Serial clock signal output to electronic volume IC.
42	DATA	O	Serial data signal output to electronic volume IC.
43	STB	O	Serial data strobe signal output to electronic volume IC.
44	$\overline{\text{SYS.POWER}}$	I	System power signal input
45	AC MUTE	O	A-Class mute signal output
46	RDS INT	I	RDS clock signal input from FM/AM tuner pack. (AEP model only)
47	$\overline{\text{STOP}}$	I	Stop signal input from reset/+5.6V regulator IC.
48	VSS	—	Ground
49	$\overline{\text{SIRCS}}$	I	Sircs signal input from remote control receiver IC.
50	TUNER MUTE	O	Muting control signal output to FM/AM tuner pack.
51	—	—	Not used. (Open)
52	+5V	—	Power supply pin (+5 V)
53	BASS B. LED	O	BASS BOOST LED drive signal output
54	SPK A LED	O	SPEAKER A LED drive signal output
55	SPK B LED	O	SPEAKER B LED drive signal output

Pin No.	Pin Name	I/O	Pin Description
56	RY R1 COIL	O	Power relay (12V) drive signal output
57	RY POWER	O	AC power relay (9V) drive signal output
58	RY A	O	Speaker A relay (12V) drive signal output
59	RY B	O	Speaker B relay (12V) drive signal output
60	RY HP	O	Phones relay (12V) drive signal output
61	—	—	Not used. (Open)
62 to 70	S15 to S7	O	Segment drive signal output to the vacuum fluorescent display (FL201).
71	VLOAD	—	Power supply pin (–24 V)
72 to 77	S6 to S1	O	Segment drive signal output to the vacuum fluorescent display (FL201).
78 to 80	DIG10 to DIG8	O	Digit drive signal output to the vacuum fluorescent display (FL201).

4-2. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

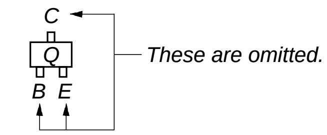
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}/_{4}$ W or less unless otherwise specified.
- ⚠ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

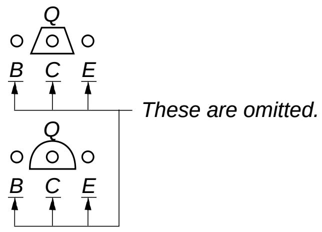
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- : B+ Line.
- : B– Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER (FM/AM)
  : VIDEO (AUDIO)
  : CD (ANALOG)
- Abbreviation
  CND : Canadian model.

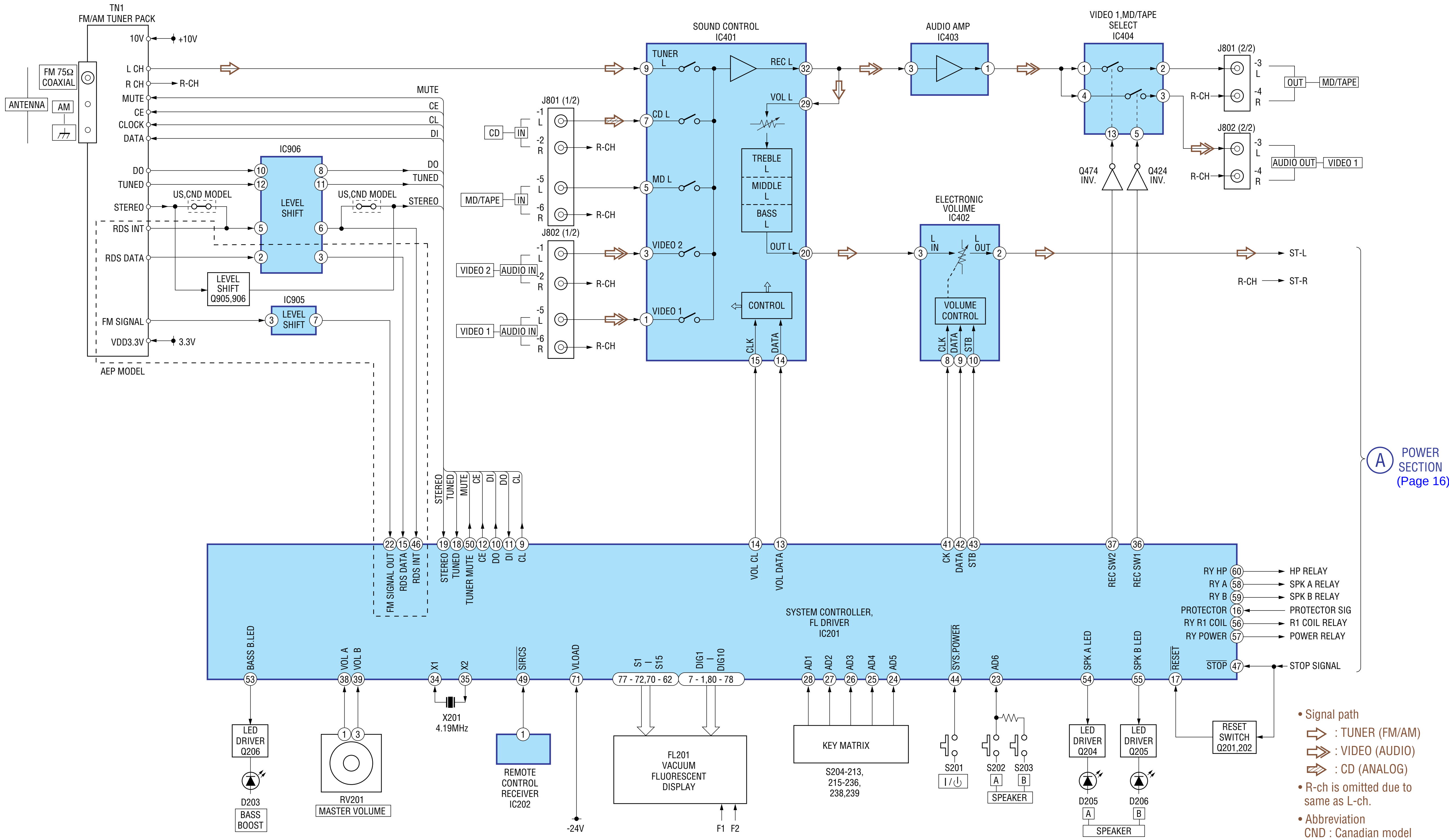
for printed wiring boards:

- : parts extracted from the component side.
- ⚠ : internal component.
- : Pattern from the side which enables seeing.
- Abbreviation
  CND : Canadian model.

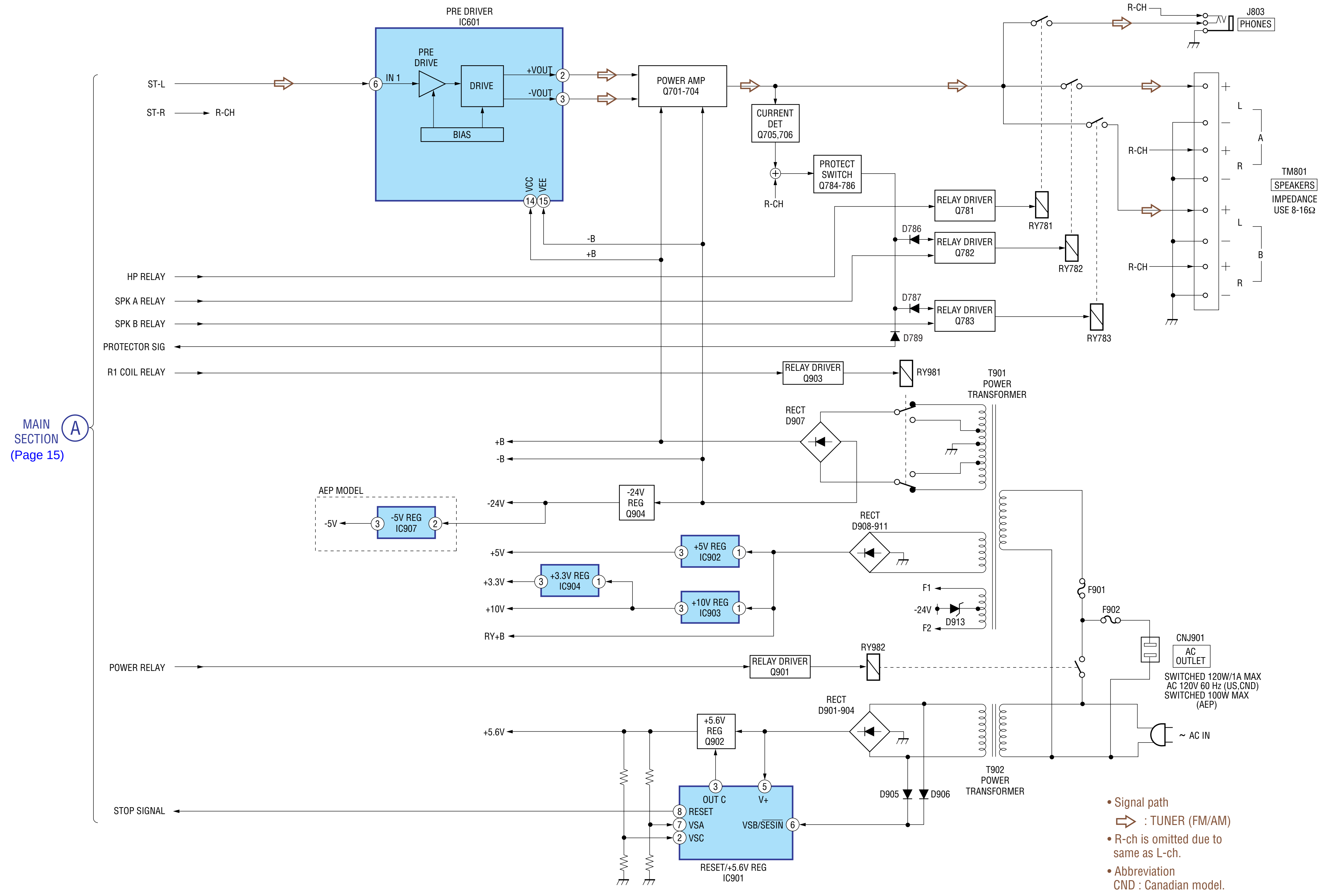




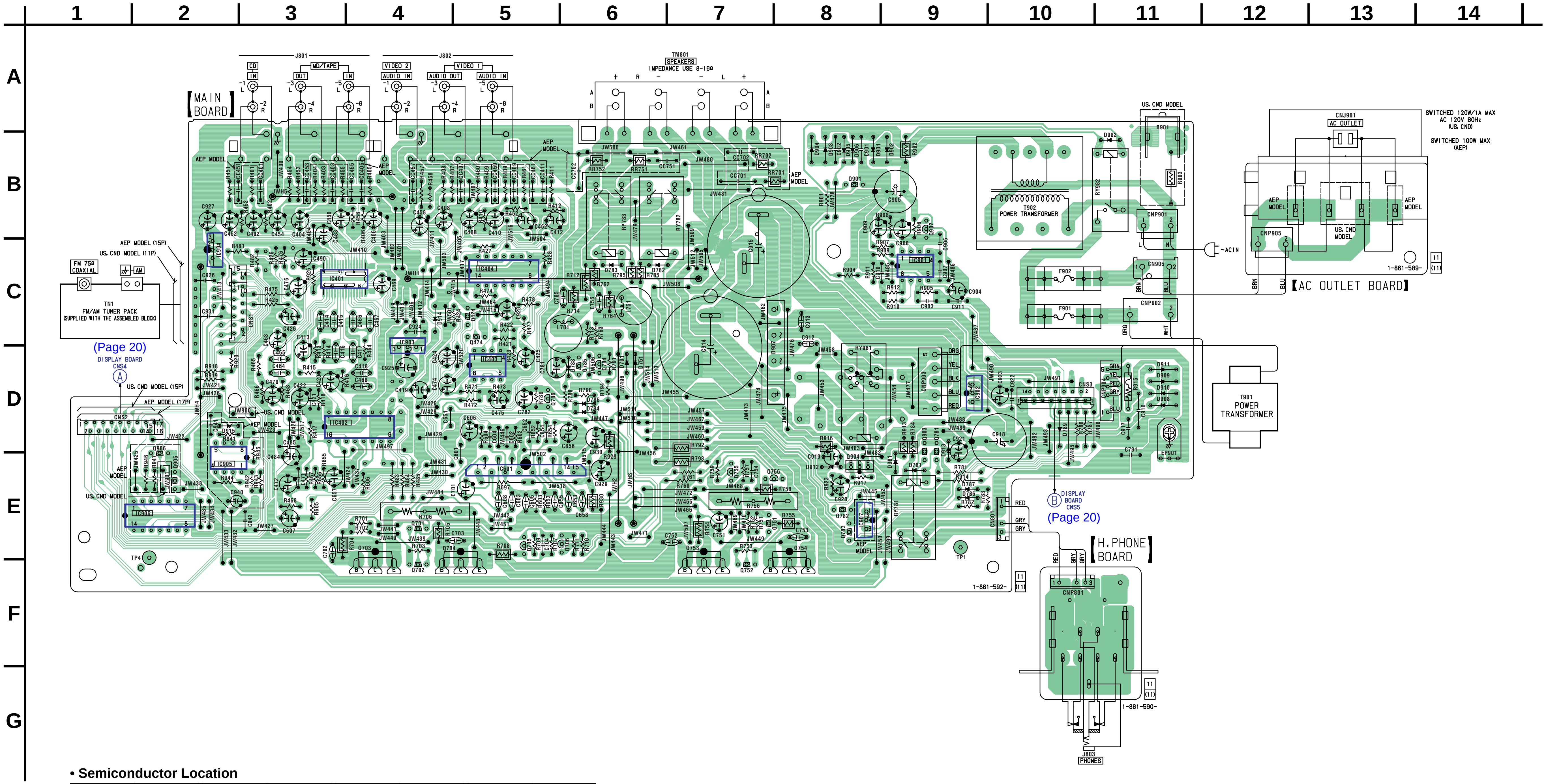
4-3. BLOCK DIAGRAM — MAIN SECTION —



4-4. BLOCK DIAGRAM — POWER SECTION —



4-5. PRINTED WIRING BOARDS — MAIN SECTION — **• Refer to page 13 for Circuit Boards Location and page 14 for Common Note on Printed Wiring Boards.**

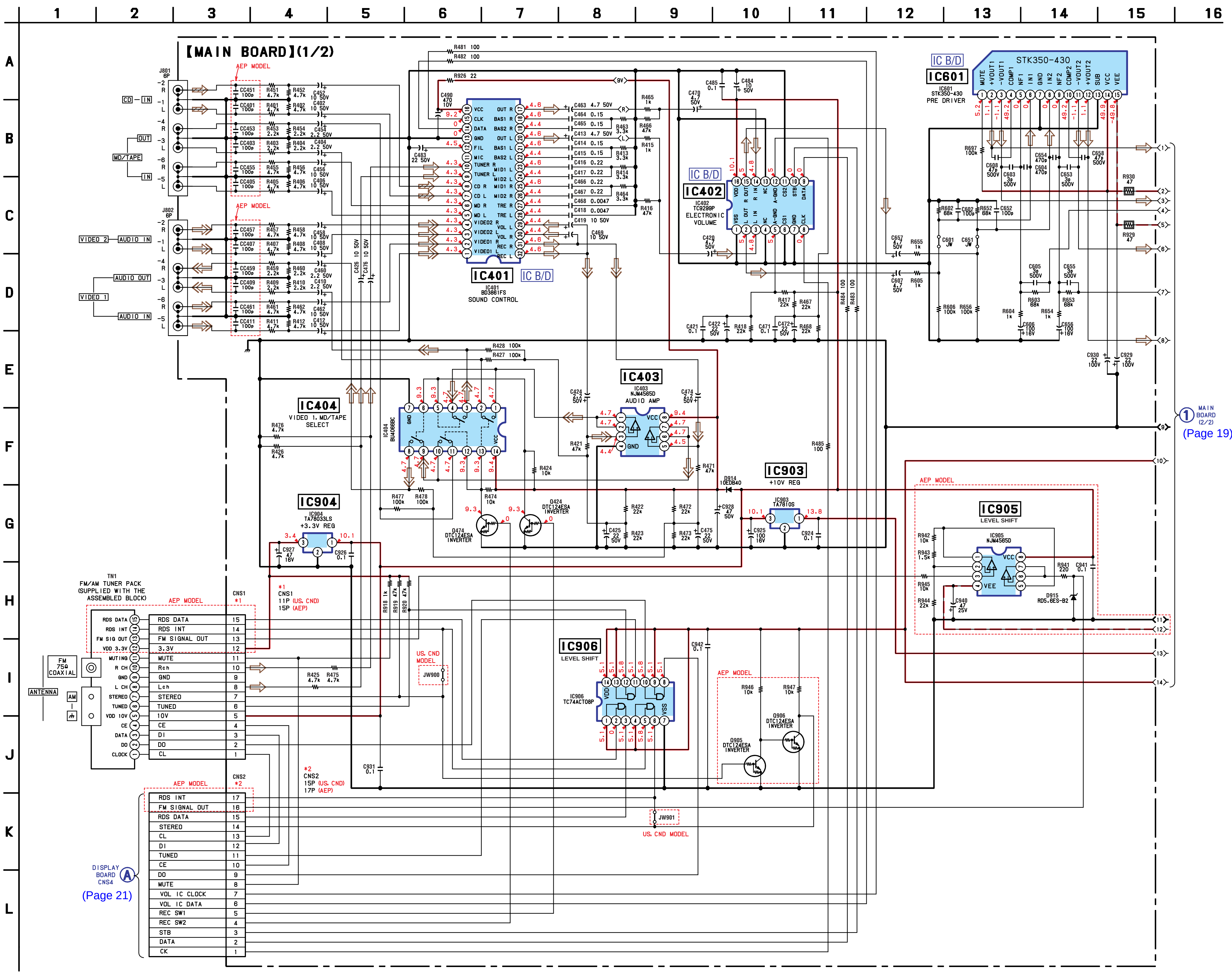


• Semiconductor Location

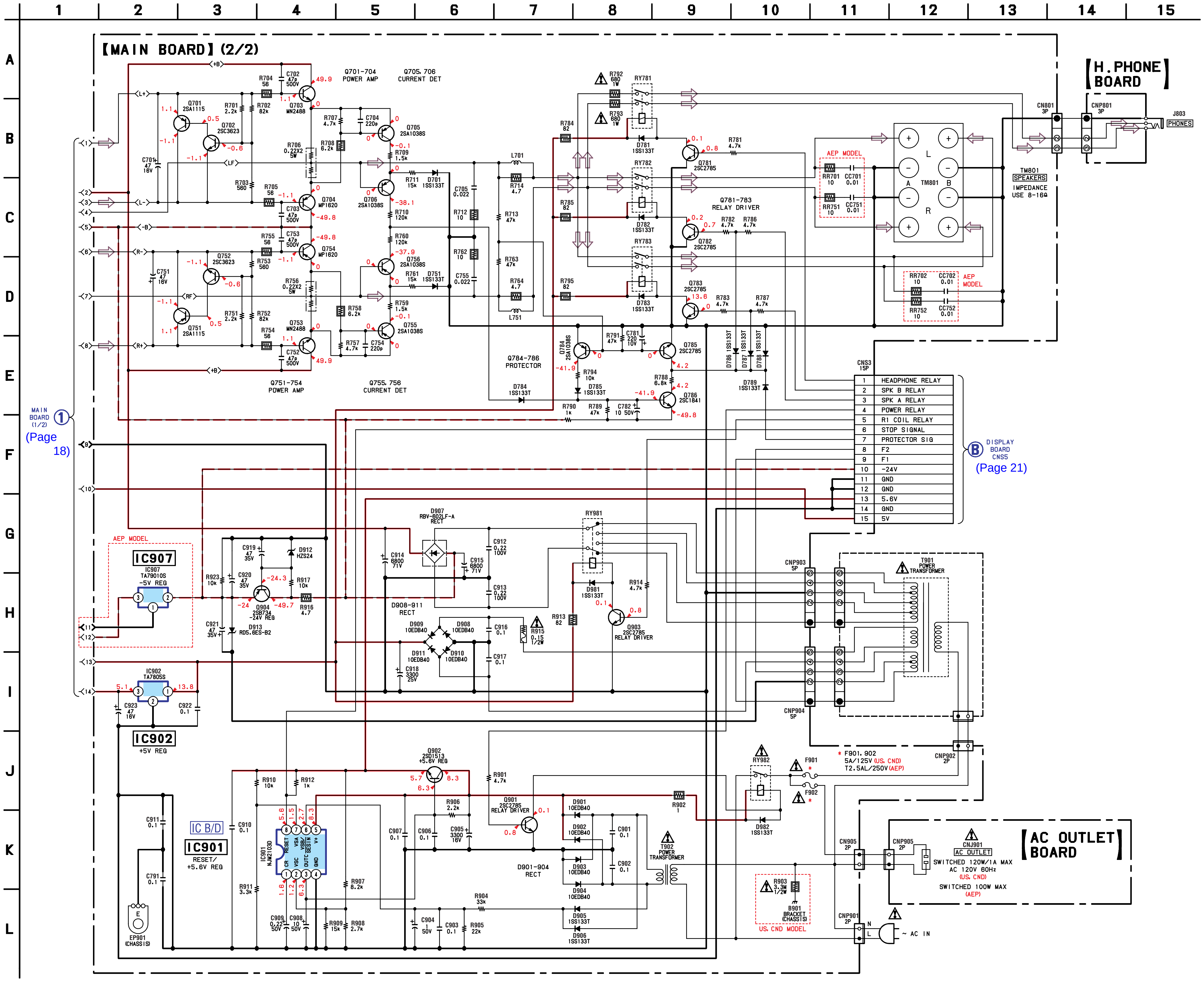
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D701	D-6	D907	D-7	IC901	C-9	Q752	E-7
D751	D-6	D908	D-11	IC902	D-9	Q753	E-7
D781	E-9	D909	D-11	IC903	C-4	Q754	E-8
D782	C-6	D910	D-11	IC904	C-2	Q755	E-7
D783	C-6	D911	D-11	(IC905)	E-2	Q756	E-7
D784	D-6	D912	E-8	IC906	E-2	Q781	D-9
D785	D-6	D913	D-9	(IC907)	E-8	Q782	E-8
D786	E-9	D914	C-4			Q783	E-8
D787	E-9	(D915)	D-2	Q424	C-5	Q784	D-6
D788	D-6	D981	E-9	Q474	C-5	Q785	D-6
D789	D-10	D982	B-11	Q701	E-4	Q786	D-5
D901	B-8			Q702	F-4	Q901	B-8
D902	B-9	IC401	C-3	Q703	E-4	Q902	B-9
D903	D-9	IC402	D-3	Q704	E-4	Q903	D-9
D904	B-8	IC403	D-5	Q705	E-5	Q904	E-8
D905	B-8	IC404	C-5	Q706	E-6	(Q905)	E-2
D906	B-8	IC601	E-5	Q751	E-7	(Q906)	D-2

(   ) : AEP model only

4-6. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 14 for Common Note on Schematic Diagram and page 22 for IC Block Diagrams.



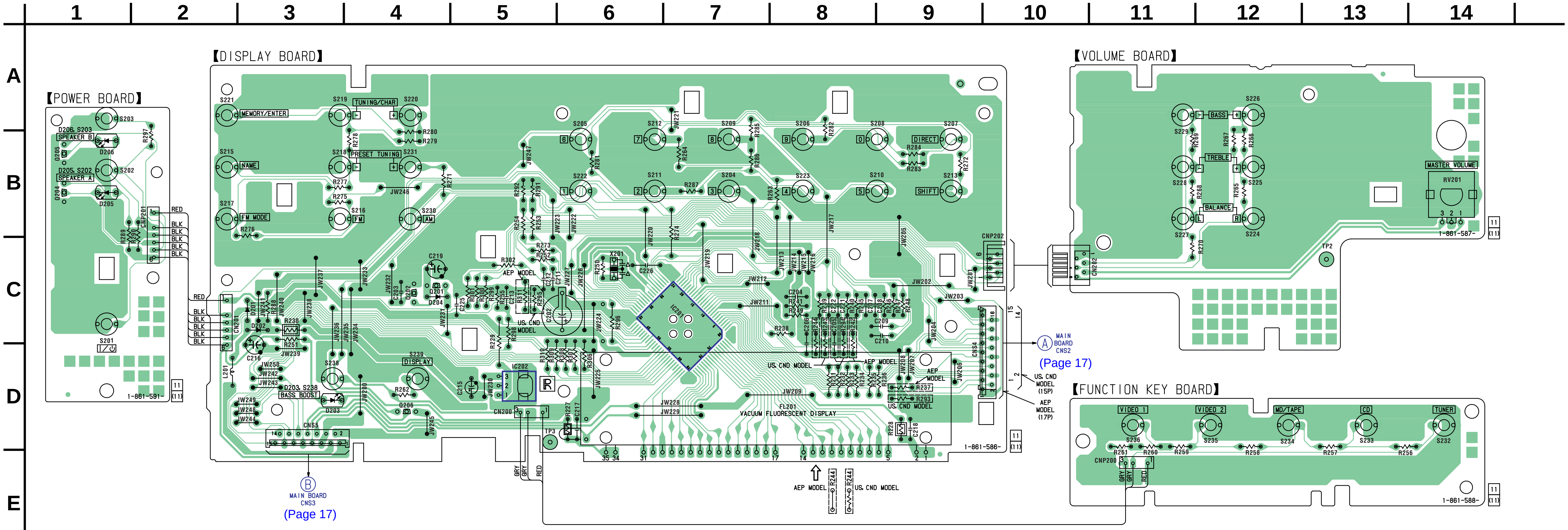
4-7. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 14 for Common Note on Schematic Diagram and page 22 for IC Block Diagrams.



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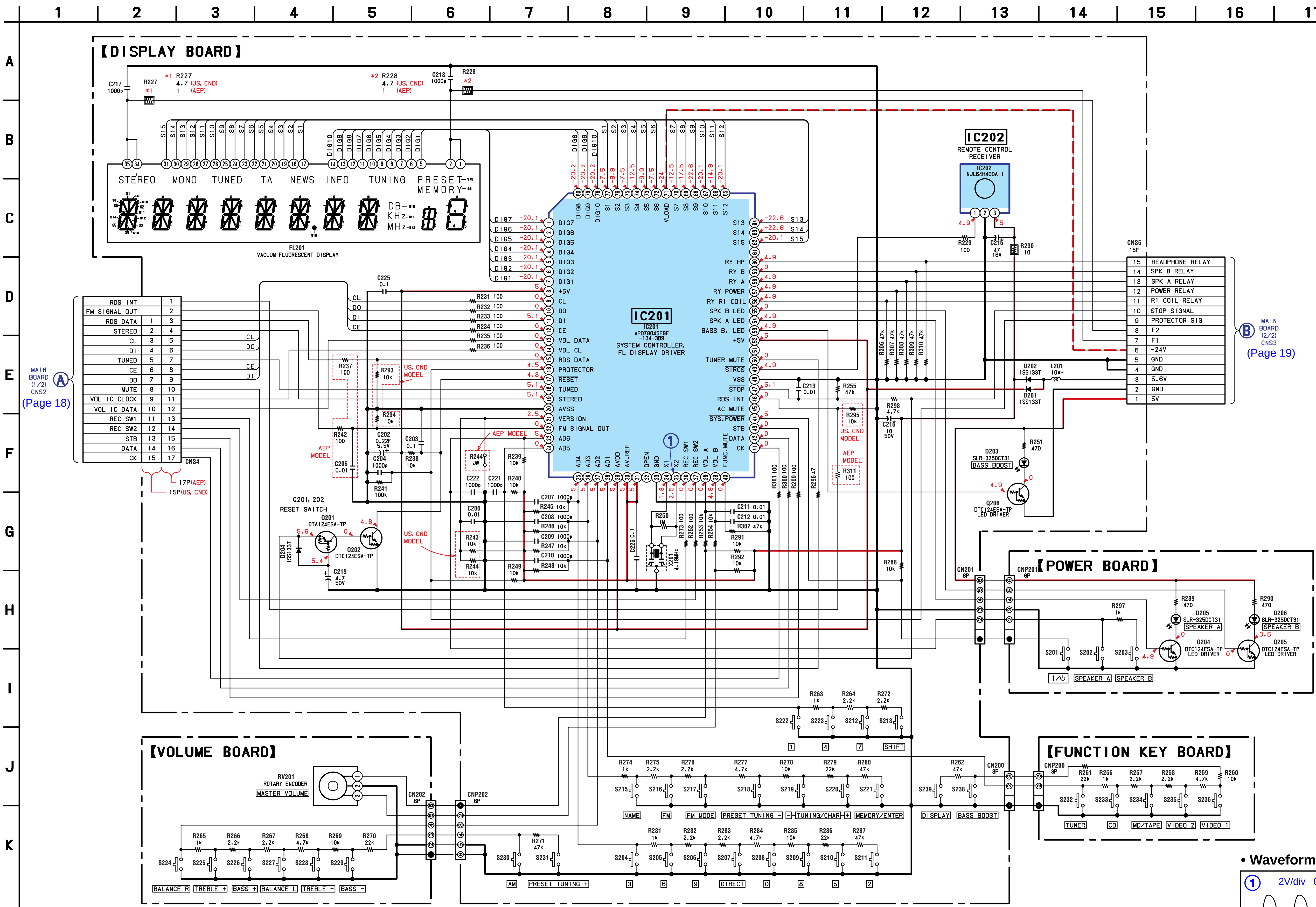
4-8. PRINTED WIRING BOARDS — PANEL SECTION — • Refer to page 13 for Circuit Boards Location and page 14 for Common Note on Printed Wiring Boards.



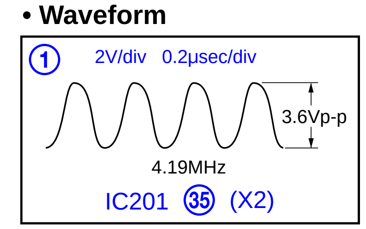
• Semiconductor Location

Ref. No.	Location
D201	C-3
D202	C-3
D203	D-3
D204	C-4
D205	B-1
D206	B-1
IC201	C-7
IC202	D-5
Q201	C-4
Q202	C-4
Q204	B-1
Q205	B-1
Q206	D-4

4-9. SCHEMATIC DIAGRAM — PANEL SECTION — • Refer to page 14 for Common Note on Schematic Diagram.

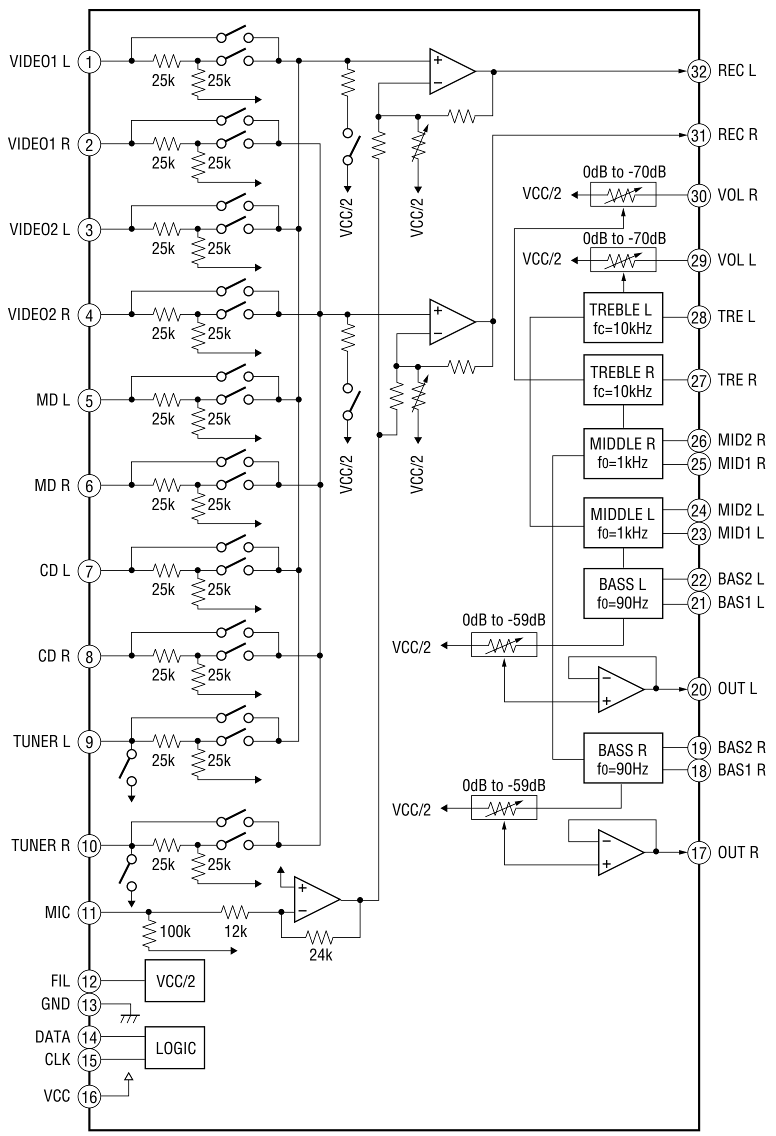


• Waveform

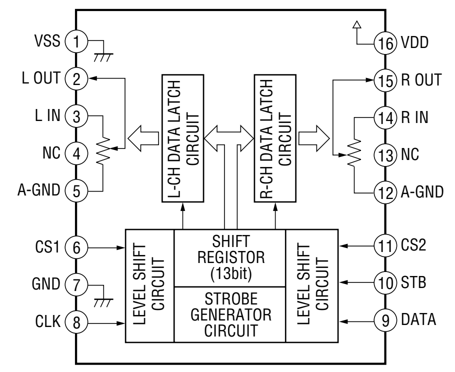


4-10. IC BLOCK DIAGRAMS

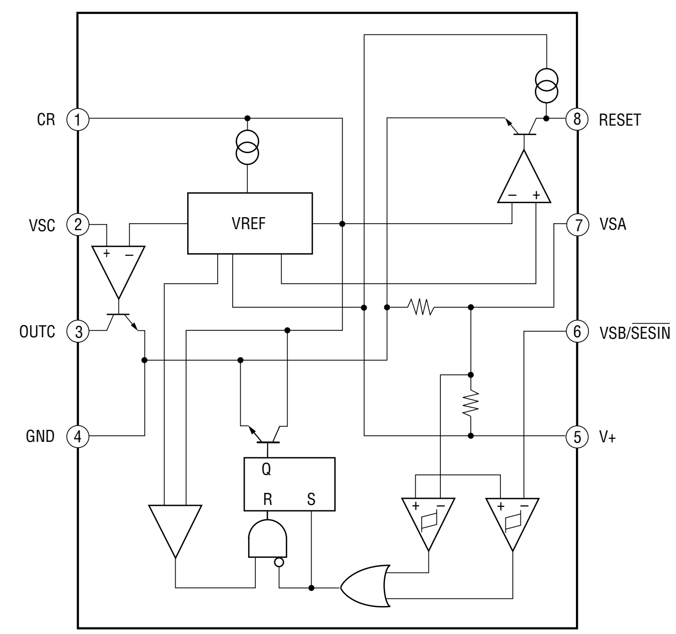
IC401 BD3861FS (MAIN BOARD (1/2))



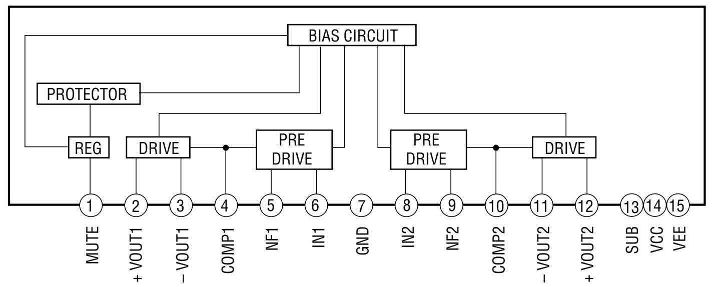
IC402 TC9299P (MAIN BOARD (1/2))



IC901 NJM2103D (MAIN BOARD (2/2))



IC601 STK350-430 (MAIN BOARD (1/2))



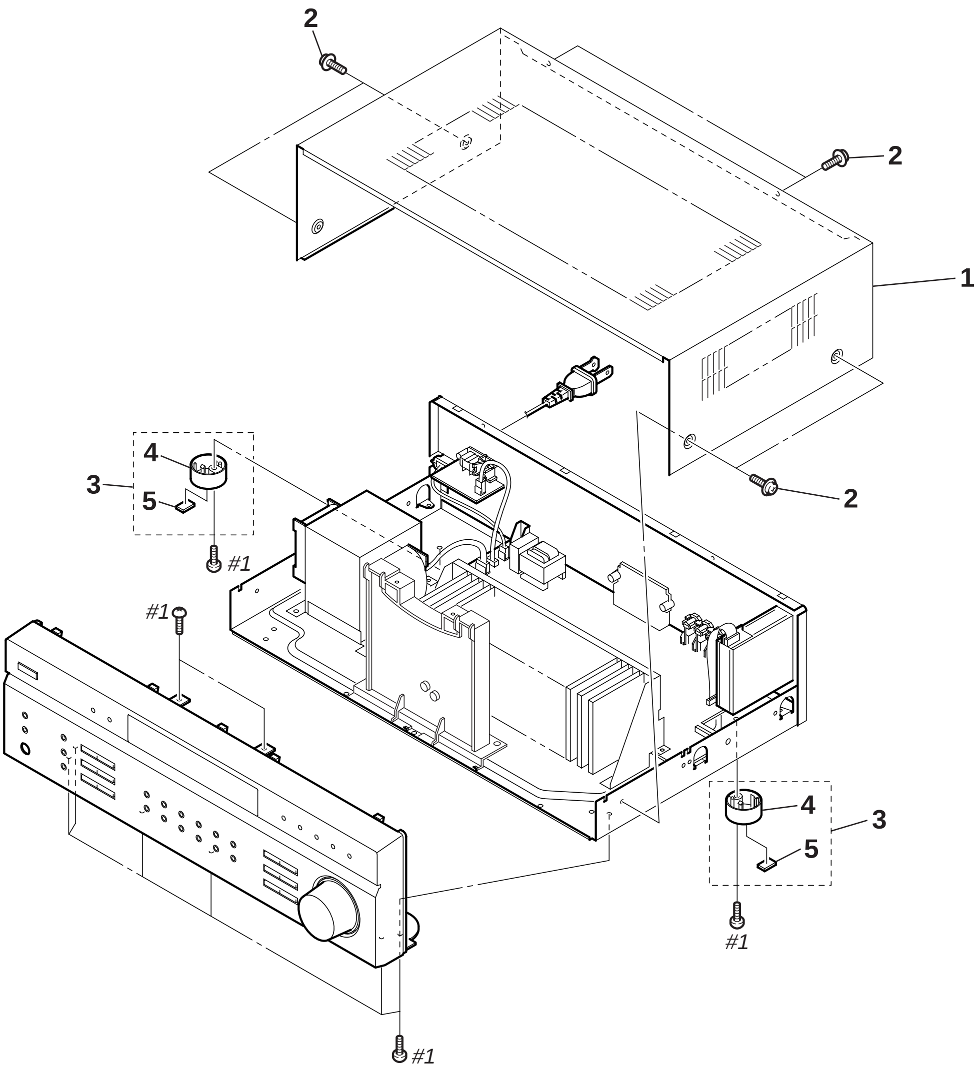
SECTION 5
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
  CND : Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

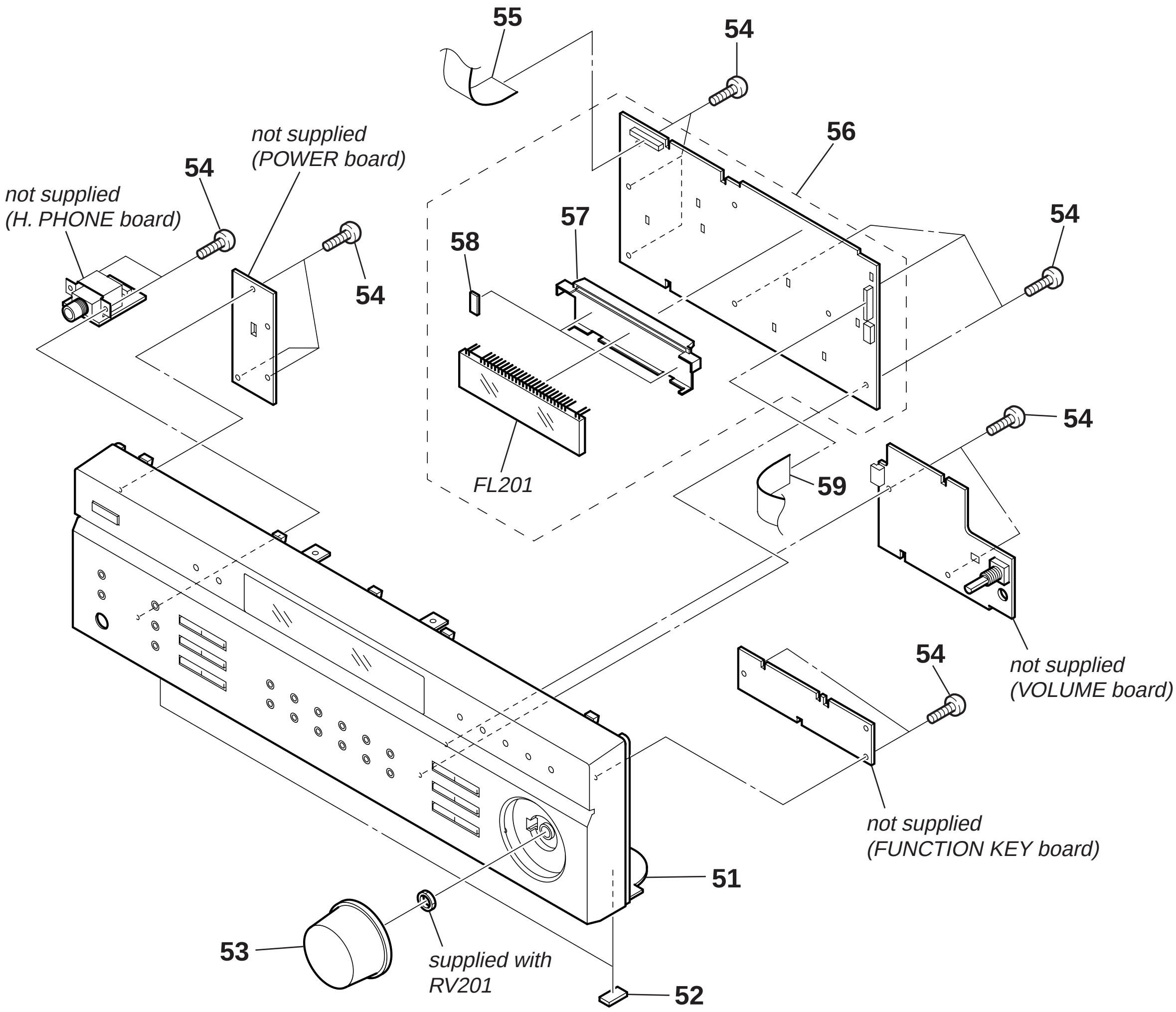
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	4-252-402-01	CASE (BLACK)	
1	4-252-402-21	CASE (SILVER)	
1	4-252-402-41	CASE (SILVER:for Hair-line Finish)	
2	4-210-291-01	SCREW (CASE 3 TP2) (BLACK)	
2	4-210-291-11	SCREW (CASE 3 TP2) (SILVER)	
3	X-4953-448-1	FOOT ASSY	
4	4-232-237-01	FOOT (DIA.30)	
5	4-977-358-01	CUSHION	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

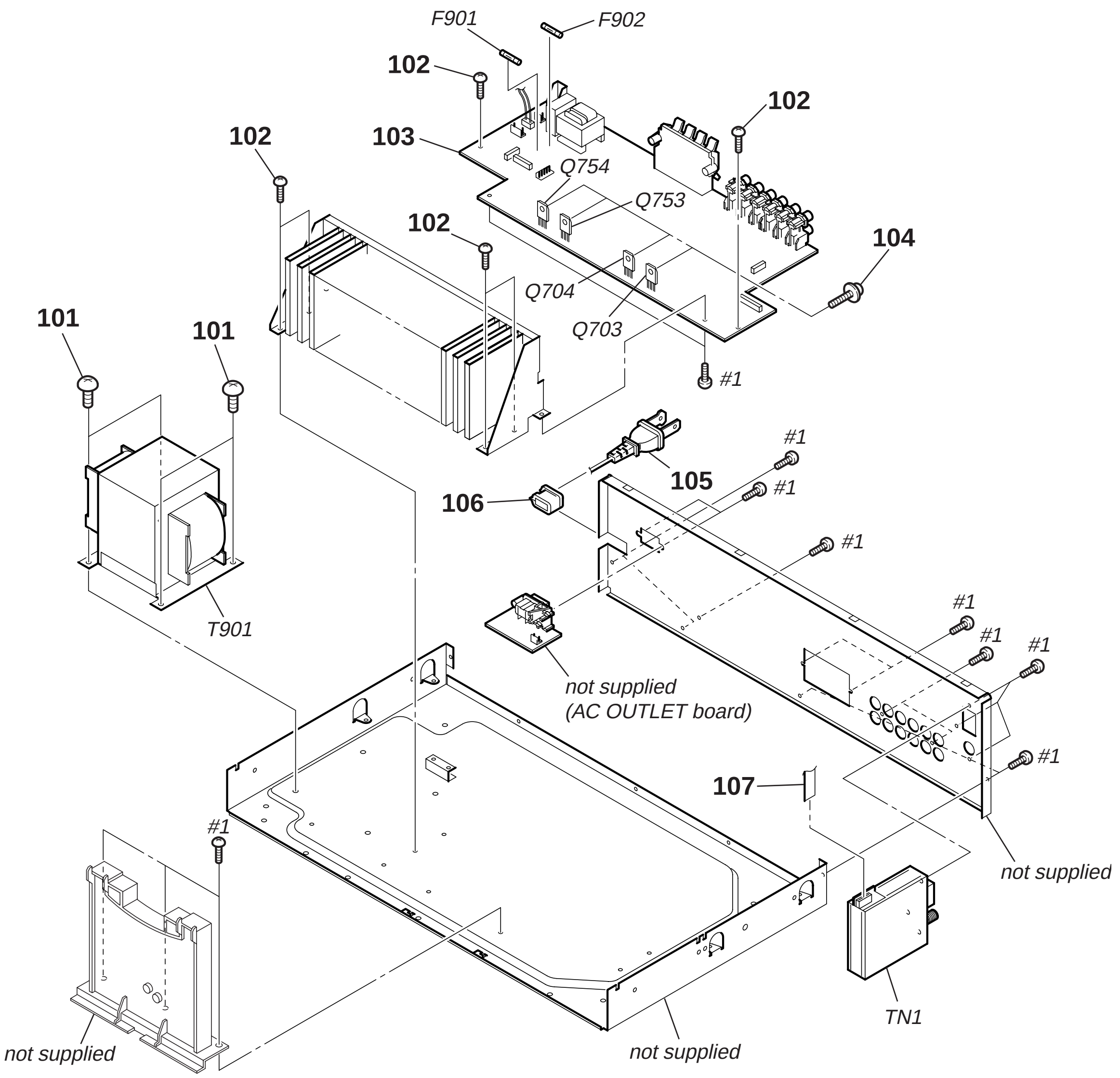
5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-2021-462-1	FRONT PANEL ASSY (BLACK) (CND)	
51	X-2108-586-1	FRONT PANEL ASSY (SILVER:for Hair-line Finish) (AEP)	
51	X-4956-248-1	FRONT PANEL ASSY (BLACK) (US)	
51	X-4956-259-1	FRONT PANEL ASSY (BLACK) (AEP)	
51	X-4956-260-1	FRONT PANEL ASSY (SILVER) (AEP)	
52	4-977-358-01	CUSHION	
53	4-232-113-01	KNOB (VOL) (BLACK)	
53	4-232-113-12	KNOB (VOL) (SILVER)	
53	4-232-113-31	KNOB (VOL) (SILVER:for Hair-line Finish)	

Ref. No.	Part No.	Description	Remark
54	4-951-620-01	SCREW (2.6X8), +BVTP	
55	1-773-026-11	WIRE (FLAT TYPE) (15 CORE)	
56	A-4751-164-A	DISPLAY BOARD, COMPLETE (US,CND)	
56	A-4751-248-A	DISPLAY BOARD, COMPLETE (AEP)	
* 57	4-943-107-11	HOLDER (FL TUBE)	
* 58	4-921-941-01	CUSHION (FL)	
59	1-773-026-11	WIRE (FLAT TYPE) (15 CORE) (US,CND)	
59	1-773-060-11	WIRE (FLAT TYPE) (17 CORE) (AEP)	
FL201	1-518-970-11	VACUUM FLUORESCENT DISPLAY	

5-3. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	4-249-675-01	+BV SUMITITE S 4X6 ROUND	
102	3-970-608-01	SUMITITE (B3), +BV	
103	A-4751-167-A	MAIN BOARD, COMPLETE (US,CND)	
103	A-4751-247-A	MAIN BOARD, COMPLETE (AEP)	
104	3-905-609-01	SCREW (TRANSISTOR)	
⚠105	1-777-071-23	CORD, POWER (AEP)	
⚠105	1-783-820-11	CORD, POWER (US,CND)	
* 106	3-703-244-00	BUSHING (2104), CORD	
107	1-769-942-11	WIRE (FLAT TYPE) (11 CORE) (US,CND)	
107	1-773-006-11	WIRE (FLAT TYPE) (15 CORE) (AEP)	
⚠F901	1-533-453-12	FUSE, GLASS TUBE (DIA.5) (5A/125V) (US,CND)	
⚠F901	1-533-469-12	FUSE, GLASS TUBE (DIA.5) (T2.5AL/250V) (AEP)	
⚠F902	1-533-453-12	FUSE, GLASS TUBE (DIA.5) (5A/125V) (US,CND)	
⚠F902	1-533-469-12	FUSE, GLASS TUBE (DIA.5) (T2.5AL/250V) (AEP)	
Q703	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q704	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q753	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q754	8-749-010-26	TRANSISTOR MP1620-OPY-M	
⚠T901	1-443-188-11	TRANSFORMER, POWER (US,CND)	
⚠T901	1-443-189-11	TRANSFORMER, POWER (AEP)	
TN1	1-693-577-13	TUNER PACK (ANTENNA) (US,CND)	
TN1	1-693-578-13	TUNER PACK (ANTENNA) (AEP)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

AC OUTLET | DISPLAY

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  CND : Canadian model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		AC OUTLET BOARD	
		***************	
		< AC OUTLET >	
⚠CNJ901	1-785-285-11	OUTLET, AC (1P) (AC OUTLET) (AEP)	
⚠CNJ901	1-785-834-11	OUTLET, AC (1P) (AC OUTLET) (US,CND)	
		< CONNECTOR >	
CNP905	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
**			
	A-4751-164-A	DISPLAY BOARD, COMPLETE (US,CND)	
	A-4751-248-A	DISPLAY BOARD, COMPLETE (AEP)	
		************************	
*	4-921-941-01	CUSHION (FL)	
*	4-943-107-11	HOLDER (FL TUBE)	
		< CAPACITOR >	
C202	1-104-905-11	DOUBLE LAYERS 0.22F	5.5V
C203	1-164-159-11	CERAMIC 0.1uF	50V
C204	1-128-821-11	CERAMIC 0.001uF 5%	50V
C205	1-127-876-11	CERAMIC 0.01uF 10%	50V (AEP)
C206	1-127-876-11	CERAMIC 0.01uF 10%	50V
C207	1-128-821-11	CERAMIC 0.001uF 5%	50V
C208	1-128-821-11	CERAMIC 0.001uF 5%	50V
C209	1-128-821-11	CERAMIC 0.001uF 5%	50V
C210	1-128-821-11	CERAMIC 0.001uF 5%	50V
C211	1-127-876-11	CERAMIC 0.01uF 10%	50V
C212	1-127-876-11	CERAMIC 0.01uF 10%	50V
C213	1-127-876-11	CERAMIC 0.01uF 10%	50V
C215	1-126-947-11	ELECT 47uF 20%	35V
C216	1-126-795-11	ELECT 10uF 20%	50V
C217	1-128-821-11	CERAMIC 0.001uF 5%	50V
C218	1-128-821-11	CERAMIC 0.001uF 5%	50V
C219	1-126-794-11	ELECT 4.7uF 20%	50V
C221	1-128-821-11	CERAMIC 0.001uF 5%	50V
C222	1-128-821-11	CERAMIC 0.001uF 5%	50V
C225	1-164-159-11	CERAMIC 0.1uF	50V
C226	1-164-159-11	CERAMIC 0.1uF	50V
		< CONNECTOR >	
CNP202	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P	
CNS4	1-784-776-11	CONNECTOR, FFC 15P (US,CND)	

Ref. No.	Part No.	Description	Remark
CNS4	1-784-778-11	CONNECTOR, FFC 17P (AEP)	
CNS5	1-784-776-11	CONNECTOR, FFC 15P	
		< DIODE >	
D201	8-719-991-33	DIODE 1SS133T-77	
D202	8-719-991-33	DIODE 1SS133T-77	
D203	8-719-061-96	LED SLR-325DCT31 (BASS BOOST)	
D204	8-719-991-33	DIODE 1SS133T-77	
		< VACUUM FLUORESCENT DISPLAY >	
FL201	1-518-970-11	VACUUM FLUORESCENT DISPLAY	
		< IC >	
IC201	6-801-553-01	IC uPD78045FGF-134-3B9	
IC202	8-759-827-70	IC NJL64H400A-1 (IR)	
		< COIL >	
L201	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q201	8-729-029-40	TRANSISTOR DTA124ESA	
Q202	8-729-029-86	TRANSISTOR DTC124ESA	
Q206	8-729-029-86	TRANSISTOR DTC124ESA	
		< RESISTOR >	
R227	1-249-381-11	CARBON 1 5%	1/4W F (AEP)
R227	1-249-389-11	CARBON 4.7 5%	1/4W F (US,CND)
R228	1-249-381-11	CARBON 1 5%	1/4W F (AEP)
R228	1-249-389-11	CARBON 4.7 5%	1/4W F (US,CND)
R229	1-247-807-31	CARBON 100 5%	1/4W
R230	1-249-393-11	CARBON 10 5%	1/4W F
R231	1-247-807-31	CARBON 100 5%	1/4W
R232	1-247-807-31	CARBON 100 5%	1/4W
R233	1-247-807-31	CARBON 100 5%	1/4W
R234	1-247-807-31	CARBON 100 5%	1/4W
R235	1-247-807-31	CARBON 100 5%	1/4W
R236	1-247-807-31	CARBON 100 5%	1/4W
R237	1-247-807-31	CARBON 100 5%	1/4W (AEP)
R238	1-249-429-11	CARBON 10K 5%	1/4W
R239	1-249-429-11	CARBON 10K 5%	1/4W

DISPLAY **FUNCTION KEY**

Ref. No.	Part No.	Description			Remark
R240	1-249-429-11	CARBON	10K	5%	1/4W
R241	1-247-879-11	CARBON	100K	5%	1/4W
R242	1-247-807-31	CARBON	100	5%	1/4W (AEP)
R243	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R244	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R245	1-249-429-11	CARBON	10K	5%	1/4W
R246	1-249-429-11	CARBON	10K	5%	1/4W
R247	1-249-429-11	CARBON	10K	5%	1/4W
R248	1-249-429-11	CARBON	10K	5%	1/4W
R249	1-249-429-11	CARBON	10K	5%	1/4W
R250	1-247-903-00	CARBON	1M	5%	1/4W
R251	1-249-413-11	CARBON	470	5%	1/4W
R252	1-247-807-31	CARBON	100	5%	1/4W
R253	1-249-429-11	CARBON	10K	5%	1/4W
R254	1-249-429-11	CARBON	10K	5%	1/4W
R255	1-247-871-11	CARBON	47K	5%	1/4W
R262	1-247-871-11	CARBON	47K	5%	1/4W
R263	1-247-831-11	CARBON	1K	5%	1/4W
R264	1-249-421-11	CARBON	2.2K	5%	1/4W
R271	1-247-871-11	CARBON	47K	5%	1/4W
R272	1-249-421-11	CARBON	2.2K	5%	1/4W
R273	1-247-807-31	CARBON	100	5%	1/4W
R274	1-247-831-11	CARBON	1K	5%	1/4W
R275	1-249-421-11	CARBON	2.2K	5%	1/4W
R276	1-249-421-11	CARBON	2.2K	5%	1/4W
R277	1-247-847-11	CARBON	4.7K	5%	1/4W
R278	1-249-429-11	CARBON	10K	5%	1/4W
R279	1-247-863-11	CARBON	22K	5%	1/4W
R280	1-247-871-11	CARBON	47K	5%	1/4W
R281	1-247-831-11	CARBON	1K	5%	1/4W
R282	1-249-421-11	CARBON	2.2K	5%	1/4W
R283	1-249-421-11	CARBON	2.2K	5%	1/4W
R284	1-247-847-11	CARBON	4.7K	5%	1/4W
R285	1-249-429-11	CARBON	10K	5%	1/4W
R286	1-247-863-11	CARBON	22K	5%	1/4W
R287	1-247-871-11	CARBON	47K	5%	1/4W
R288	1-249-429-11	CARBON	10K	5%	1/4W
R291	1-249-429-11	CARBON	10K	5%	1/4W
R292	1-249-429-11	CARBON	10K	5%	1/4W
R293	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R294	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R295	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R296	1-249-401-11	CARBON	47	5%	1/4W
R298	1-247-847-11	CARBON	4.7K	5%	1/4W
R299	1-247-807-31	CARBON	100	5%	1/4W
R300	1-247-807-31	CARBON	100	5%	1/4W
R301	1-247-807-31	CARBON	100	5%	1/4W
R302	1-247-871-11	CARBON	47K	5%	1/4W
R306	1-247-871-11	CARBON	47K	5%	1/4W
R307	1-247-871-11	CARBON	47K	5%	1/4W
R308	1-247-871-11	CARBON	47K	5%	1/4W
R309	1-247-871-11	CARBON	47K	5%	1/4W
R310	1-247-871-11	CARBON	47K	5%	1/4W
R311	1-247-807-31	CARBON	100	5%	1/4W (AEP)
		< SWITCH >			
S204	1-771-410-21	SWITCH, TACTILE (3)			
S205	1-771-410-21	SWITCH, TACTILE (6)			
S206	1-771-410-21	SWITCH, TACTILE (9)			
S207	1-771-410-21	SWITCH, TACTILE (DIRECT)			
S208	1-771-410-21	SWITCH, TACTILE (0)			
S209	1-771-410-21	SWITCH, TACTILE (8)			
S210	1-771-410-21	SWITCH, TACTILE (5)			
S211	1-771-410-21	SWITCH, TACTILE (2)			
S212	1-771-410-21	SWITCH, TACTILE (7)			
S213	1-771-410-21	SWITCH, TACTILE (SHIFT)			
S215	1-771-410-21	SWITCH, TACTILE (NAME)			
S216	1-771-410-21	SWITCH, TACTILE (FM)			
S217	1-771-410-21	SWITCH, TACTILE (FM MODE)			
S218	1-771-410-21	SWITCH, TACTILE (PRESET TUNING –)			
S219	1-771-410-21	SWITCH, TACTILE (TUNING/CHAR –)			
S220	1-771-410-21	SWITCH, TACTILE (TUNING/CHAR +)			
S221	1-771-410-21	SWITCH, TACTILE (MEMORY/ENTER)			
S222	1-771-410-21	SWITCH, TACTILE (1)			
S223	1-771-410-21	SWITCH, TACTILE (4)			
S230	1-771-410-21	SWITCH, TACTILE (AM)			
S231	1-771-410-21	SWITCH, TACTILE (PRESET TUNING +)			
S238	1-771-410-21	SWITCH, TACTILE (BASS BOOST)			
S239	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
		< VIBRATOR >			
X201	1-795-736-21	VIBRATOR, CERAMIC (4.19MHz)			

****

FUNCTION KEY BOARD
****

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R256	1-247-831-11	CARBON	1K	5%	1/4W
R257	1-249-421-11	CARBON	2.2K	5%	1/4W
R258	1-249-421-11	CARBON	2.2K	5%	1/4W
R259	1-247-847-11	CARBON	4.7K	5%	1/4W
R260	1-249-429-11	CARBON	10K	5%	1/4W
R261	1-247-863-11	CARBON	22K	5%	1/4W
		< SWITCH >			
S232	1-771-410-21	SWITCH, TACTILE (TUNER)			
S233	1-771-410-21	SWITCH, TACTILE (CD)			
S234	1-771-410-21	SWITCH, TACTILE (MD/TAPE)			
S235	1-771-410-21	SWITCH, TACTILE (VIDEO 2)			
S236	1-771-410-21	SWITCH, TACTILE (VIDEO 1)			

****

H.PHONE **MAIN**

Ref. No.	Part No.	Description			Remark
		H.PHONE BOARD			
		**************			
		< CONNECTOR >			
CNP801	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< JACK >			
J803	1-815-314-21	JACK (PHONES)			

****

Ref. No.	Part No.	Description			Remark
	A-4751-167-A	MAIN BOARD, COMPLETE (US,CND)			
	A-4751-247-A	MAIN BOARD, COMPLETE (AEP)			
		*********************			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C402	1-126-964-11	ELECT	10uF	20%	50V
C404	1-126-961-11	ELECT	2.2uF	20%	50V
C406	1-126-964-11	ELECT	10uF	20%	50V
C408	1-126-964-11	ELECT	10uF	20%	50V
C410	1-126-961-11	ELECT	2.2uF	20%	50V
C412	1-126-964-11	ELECT	10uF	20%	50V
C413	1-126-963-11	ELECT	4.7uF	20%	50V
C414	1-136-167-00	FILM	0.15uF	5%	50V
C415	1-136-167-00	FILM	0.15uF	5%	50V
C416	1-137-190-11	FILM	0.22uF	5%	50V
C417	1-137-190-11	FILM	0.22uF	5%	50V
C418	1-136-287-11	FILM	0.0047uF	5%	100V
C419	1-126-964-11	ELECT	10uF	20%	50V
C420	1-126-963-11	ELECT	4.7uF	20%	50V
C421	1-164-159-11	CERAMIC	0.1uF		50V
C422	1-126-965-11	ELECT	22uF	20%	50V
C424	1-126-961-11	ELECT	2.2uF	20%	50V
C425	1-126-965-11	ELECT	22uF	20%	50V
C426	1-126-964-11	ELECT	10uF	20%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V
C454	1-126-961-11	ELECT	2.2uF	20%	50V
C456	1-126-964-11	ELECT	10uF	20%	50V
C458	1-126-964-11	ELECT	10uF	20%	50V
C460	1-126-961-11	ELECT	2.2uF	20%	50V
C462	1-126-964-11	ELECT	10uF	20%	50V
C463	1-126-963-11	ELECT	4.7uF	20%	50V
C464	1-136-167-00	FILM	0.15uF	5%	50V
C465	1-136-167-00	FILM	0.15uF	5%	50V
C466	1-137-190-11	FILM	0.22uF	5%	50V
C467	1-137-190-11	FILM	0.22uF	5%	50V
C468	1-136-287-11	FILM	0.0047uF	5%	100V
C469	1-126-964-11	ELECT	10uF	20%	50V
C470	1-126-963-11	ELECT	4.7uF	20%	50V
C471	1-164-159-11	CERAMIC	0.1uF		50V
C472	1-126-965-11	ELECT	22uF	20%	50V
C474	1-126-961-11	ELECT	2.2uF	20%	50V
C475	1-126-965-11	ELECT	22uF	20%	50V
C476	1-126-964-11	ELECT	10uF	20%	50V
C483	1-126-965-11	ELECT	22uF	20%	50V
C484	1-126-964-11	ELECT	10uF	20%	50V
C485	1-164-159-11	CERAMIC	0.1uF		50V
C490	1-126-925-11	ELECT	470uF	20%	10V
C602	1-128-809-11	CERAMIC	100PF	5%	50V
C603	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C604	1-128-817-11	CERAMIC	470PF	5%	50V
C605	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C606	1-126-933-11	ELECT	100uF	20%	16V
C607	1-126-963-11	ELECT	4.7uF	20%	50V
C608	1-162-815-11	CERAMIC	47PF	5%	500V
C652	1-128-809-11	CERAMIC	100PF	5%	50V
C653	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C654	1-128-817-11	CERAMIC	470PF	5%	50V
C655	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C656	1-126-933-11	ELECT	100uF	20%	16V
C657	1-126-963-11	ELECT	4.7uF	20%	50V
C658	1-162-815-11	CERAMIC	47PF	5%	500V
C701	1-126-947-11	ELECT	47uF	20%	35V
C702	1-162-815-11	CERAMIC	47PF	5%	500V
C703	1-162-815-11	CERAMIC	47PF	5%	500V
C704	1-128-813-11	CERAMIC	220PF	5%	50V
C705	1-137-372-11	MYLAR	0.022uF	5%	50V
C751	1-126-947-11	ELECT	47uF	20%	35V
C752	1-162-815-11	CERAMIC	47PF	5%	500V
C753	1-162-815-11	CERAMIC	47PF	5%	500V
C754	1-128-813-11	CERAMIC	220PF	5%	50V
C755	1-137-372-11	MYLAR	0.022uF	5%	50V
C781	1-126-923-11	ELECT	220uF	20%	10V
C782	1-126-964-11	ELECT	10uF	20%	50V
C791	1-164-159-11	CERAMIC	0.1uF		50V
C901	1-164-159-11	CERAMIC	0.1uF		50V
C902	1-164-159-11	CERAMIC	0.1uF		50V
C903	1-164-159-11	CERAMIC	0.1uF		50V
C904	1-126-960-11	ELECT	1uF	20%	50V
C905	1-126-936-11	ELECT	3300uF	20%	16V
C906	1-164-159-11	CERAMIC	0.1uF		50V
C907	1-164-159-11	CERAMIC	0.1uF		50V
C908	1-126-964-11	ELECT	10uF	20%	50V
C909	1-126-957-11	ELECT	0.22uF	20%	50V
C910	1-164-159-11	CERAMIC	0.1uF		50V
C911	1-164-159-11	CERAMIC	0.1uF		50V
C912	1-135-851-21	MYLAR	0.22uF		100V
C913	1-135-851-21	MYLAR	0.22uF		100V
C914	1-165-946-11	ELECT	6800uF	20%	71V
C915	1-165-946-11	ELECT	6800uF	20%	71V
C916	1-164-159-11	CERAMIC	0.1uF		50V
C917	1-164-159-11	CERAMIC	0.1uF		50V
C918	1-126-944-11	ELECT	3300uF	20%	25V
C919	1-126-947-11	ELECT	47uF	20%	35V
C920	1-126-947-11	ELECT	47uF	20%	35V
C921	1-126-947-11	ELECT	47uF	20%	35V
C922	1-164-159-11	CERAMIC	0.1uF		50V
C923	1-126-947-11	ELECT	47uF	20%	35V
C924	1-164-159-11	CERAMIC	0.1uF		50V
C925	1-126-933-11	ELECT	100uF	20%	16V
C926	1-164-159-11	CERAMIC	0.1uF		50V
C927	1-126-947-11	ELECT	47uF	20%	35V
C928	1-126-967-11	ELECT	47uF	20%	50V
C929	1-128-560-11	ELECT	22uF	20%	100V
C930	1-128-560-11	ELECT	22uF	20%	100V

Ref. No.	Part No.	Description			Remark
C931	1-164-159-11	CERAMIC	0.1uF		50V
C940	1-126-947-11	ELECT	47uF	20%	35V (AEP)
C941	1-164-159-11	CERAMIC	0.1uF		50V (AEP)
C942	1-164-159-11	CERAMIC	0.1uF		50V
CC401	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC403	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC405	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC407	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC409	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC411	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC451	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC453	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC455	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC457	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC459	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC461	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC701	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP)
CC702	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP)
CC751	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP)
CC752	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP)
		< CONNECTOR >			
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP902	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP903	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P			
CNP904	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CNS1	1-568-830-11	CONNECTOR, FFC 11P (US,CND)			
CNS1	1-784-776-11	CONNECTOR, FFC 15P (AEP)			
CNS2	1-784-776-11	CONNECTOR, FFC 15P (US,CND)			
CNS2	1-784-778-11	CONNECTOR, FFC 17P (AEP)			
CNS3	1-784-776-11	CONNECTOR, FFC 15P			
		< DIODE >			
D701	8-719-991-33	DIODE 1SS133T-77			
D751	8-719-991-33	DIODE 1SS133T-77			
D781	8-719-991-33	DIODE 1SS133T-77			
D782	8-719-991-33	DIODE 1SS133T-77			
D783	8-719-991-33	DIODE 1SS133T-77			
D784	8-719-991-33	DIODE 1SS133T-77			
D785	8-719-991-33	DIODE 1SS133T-77			
D786	8-719-991-33	DIODE 1SS133T-77			
D787	8-719-991-33	DIODE 1SS133T-77			
D788	8-719-991-33	DIODE 1SS133T-77			

Ref. No.	Part No.	Description	Remark
D789	8-719-991-33	DIODE 1SS133T-77	
D901	6-500-522-11	DIODE 10EDB40-TA2B5	
D902	6-500-522-11	DIODE 10EDB40-TA2B5	
D903	6-500-522-11	DIODE 10EDB40-TA2B5	
D904	6-500-522-11	DIODE 10EDB40-TA2B5	
D905	8-719-991-33	DIODE 1SS133T-77	
D906	8-719-991-33	DIODE 1SS133T-77	
D907	8-719-072-05	DIODE RBV-602LF-A	
D908	6-500-522-11	DIODE 10EDB40-TA2B5	
D909	6-500-522-11	DIODE 10EDB40-TA2B5	
D910	6-500-522-11	DIODE 10EDB40-TA2B5	
D911	6-500-522-11	DIODE 10EDB40-TA2B5	
D912	8-719-986-54	DIODE HZS24-1LTA	
D913	8-719-109-89	DIODE RD5.6ESB2	
D914	6-500-522-11	DIODE 10EDB40-TA2B5	
D915	8-719-109-89	DIODE RD5.6ESB2 (AEP)	
D981	8-719-991-33	DIODE 1SS133T-77	
D982	8-719-991-33	DIODE 1SS133T-77	
		< EARTH TERMINAL >	
* EP901	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC401	6-700-261-01	IC BD3861FS	
IC402	8-759-534-63	IC TC9299P	
IC403	8-759-167-88	IC NJM4565D	
IC404	8-759-932-33	IC BU4066BC	
IC601	6-705-630-01	IC STK350-430	
IC901	8-759-333-83	IC NJM2103D	
IC902	8-759-231-53	IC TA7805S	
IC903	8-759-231-57	IC TA7810S	
IC904	6-702-771-01	IC TA78033LS	
IC905	8-759-167-88	IC NJM4565D (AEP)	
IC906	8-759-243-51	IC TC74ACT08P	
IC907	8-759-245-84	IC TA79010S (AEP)	
		< JACK >	
J801	1-774-411-11	JACK, PIN 6P (CD IN,MD/TAPE OUT, MD/TAPE IN)	
J802	1-774-411-11	JACK, PIN 6P (VIDEO 2 AUDIO IN, VIDEO 1 AUDIO OUT/AUDIO IN)	
		< COIL >	
L701	1-420-872-52	COIL, AIR-CORE	
L751	1-420-872-52	COIL, AIR-CORE	
		< TRANSISTOR >	
Q424	8-729-029-86	TRANSISTOR DTC124ESA	
Q474	8-729-029-86	TRANSISTOR DTC124ESA	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q705	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q706	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q755	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	
Q756	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP	

MAIN

Ref. No.	Part No.	Description			Remark
Q781	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q782	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q783	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q784	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP		
Q785	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q786	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
Q901	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q902	8-729-045-21	TRANSISTOR	2SD1513TP-LK		
Q903	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q904	8-729-140-97	TRANSISTOR	2SB734-34		
Q905	8-729-029-86	TRANSISTOR	DTC124ESA (AEP)		
Q906	8-729-029-86	TRANSISTOR	DTC124ESA (AEP)		
		< RESISTOR >			
R401	1-247-847-11	CARBON	4.7K	5%	1/4W
R402	1-247-847-11	CARBON	4.7K	5%	1/4W
R403	1-249-421-11	CARBON	2.2K	5%	1/4W
R404	1-249-421-11	CARBON	2.2K	5%	1/4W
R405	1-247-847-11	CARBON	4.7K	5%	1/4W
R406	1-247-847-11	CARBON	4.7K	5%	1/4W
R407	1-247-847-11	CARBON	4.7K	5%	1/4W
R408	1-247-847-11	CARBON	4.7K	5%	1/4W
R409	1-249-421-11	CARBON	2.2K	5%	1/4W
R410	1-249-421-11	CARBON	2.2K	5%	1/4W
R411	1-247-847-11	CARBON	4.7K	5%	1/4W
R412	1-247-847-11	CARBON	4.7K	5%	1/4W
R413	1-247-843-11	CARBON	3.3K	5%	1/4W
R414	1-247-843-11	CARBON	3.3K	5%	1/4W
R415	1-247-831-11	CARBON	1K	5%	1/4W
R416	1-247-871-11	CARBON	47K	5%	1/4W
R417	1-247-863-11	CARBON	22K	5%	1/4W
R418	1-247-863-11	CARBON	22K	5%	1/4W
R421	1-247-871-11	CARBON	47K	5%	1/4W
R422	1-247-863-11	CARBON	22K	5%	1/4W
R423	1-247-863-11	CARBON	22K	5%	1/4W
R424	1-249-429-11	CARBON	10K	5%	1/4W
R425	1-247-847-11	CARBON	4.7K	5%	1/4W
R426	1-247-847-11	CARBON	4.7K	5%	1/4W
R427	1-247-879-11	CARBON	100K	5%	1/4W
R428	1-247-879-11	CARBON	100K	5%	1/4W
R451	1-247-847-11	CARBON	4.7K	5%	1/4W
R452	1-247-847-11	CARBON	4.7K	5%	1/4W
R453	1-249-421-11	CARBON	2.2K	5%	1/4W
R454	1-249-421-11	CARBON	2.2K	5%	1/4W
R455	1-247-847-11	CARBON	4.7K	5%	1/4W
R456	1-247-847-11	CARBON	4.7K	5%	1/4W
R457	1-247-847-11	CARBON	4.7K	5%	1/4W
R458	1-247-847-11	CARBON	4.7K	5%	1/4W
R459	1-249-421-11	CARBON	2.2K	5%	1/4W
R460	1-249-421-11	CARBON	2.2K	5%	1/4W
R461	1-247-847-11	CARBON	4.7K	5%	1/4W
R462	1-247-847-11	CARBON	4.7K	5%	1/4W
R463	1-247-843-11	CARBON	3.3K	5%	1/4W
R464	1-247-843-11	CARBON	3.3K	5%	1/4W
R465	1-247-831-11	CARBON	1K	5%	1/4W
R466	1-247-871-11	CARBON	47K	5%	1/4W
R467	1-247-863-11	CARBON	22K	5%	1/4W
R468	1-247-863-11	CARBON	22K	5%	1/4W

Ref. No.	Part No.	Description				Remark
R471	1-247-871-11	CARBON	47K	5%	1/4W	
R472	1-247-863-11	CARBON	22K	5%	1/4W	
R473	1-247-863-11	CARBON	22K	5%	1/4W	
R474	1-249-429-11	CARBON	10K	5%	1/4W	
R475	1-247-847-11	CARBON	4.7K	5%	1/4W	
R476	1-247-847-11	CARBON	4.7K	5%	1/4W	
R477	1-247-879-11	CARBON	100K	5%	1/4W	
R478	1-247-879-11	CARBON	100K	5%	1/4W	
R481	1-247-807-31	CARBON	100	5%	1/4W	
R482	1-247-807-31	CARBON	100	5%	1/4W	
R483	1-247-807-31	CARBON	100	5%	1/4W	
R484	1-247-807-31	CARBON	100	5%	1/4W	
R485	1-247-807-31	CARBON	100	5%	1/4W	
R602	1-249-439-11	CARBON	68K	5%	1/4W	
R603	1-249-439-11	CARBON	68K	5%	1/4W	
R604	1-247-831-11	CARBON	1K	5%	1/4W	
R605	1-247-831-11	CARBON	1K	5%	1/4W	
R606	1-247-879-11	CARBON	100K	5%	1/4W	
R652	1-249-439-11	CARBON	68K	5%	1/4W	
R653	1-249-439-11	CARBON	68K	5%	1/4W	
R654	1-247-831-11	CARBON	1K	5%	1/4W	
R655	1-247-831-11	CARBON	1K	5%	1/4W	
R656	1-247-879-11	CARBON	100K	5%	1/4W	
R697	1-247-879-11	CARBON	100K	5%	1/4W	
R701	1-249-421-11	CARBON	2.2K	5%	1/4W	
R702	1-249-440-11	CARBON	82K	5%	1/4W	
R703	1-249-414-11	CARBON	560	5%	1/4W	
R704	1-249-402-11	CARBON	56	5%	1/4W	F
R705	1-249-402-11	CARBON	56	5%	1/4W	F
R706	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W				
R707	1-247-847-11	CARBON	4.7K	5%	1/4W	
R708	1-240-855-81	CARBON	6.2K	5%	1/4W	F
R709	1-249-419-11	CARBON	1.5K	5%	1/4W	
R710	1-247-881-00	CARBON	120K	5%	1/4W	
R711	1-249-431-11	CARBON	15K	5%	1/4W	
R712	1-249-393-11	CARBON	10	5%	1/4W	F
R713	1-247-871-11	CARBON	47K	5%	1/4W	
R714	1-249-389-11	CARBON	4.7	5%	1/4W	F
R751	1-249-421-11	CARBON	2.2K	5%	1/4W	
R752	1-249-440-11	CARBON	82K	5%	1/4W	
R753	1-249-414-11	CARBON	560	5%	1/4W	
R754	1-249-402-11	CARBON	56	5%	1/4W	F
R755	1-249-402-11	CARBON	56	5%	1/4W	F
R756	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W				
R757	1-247-847-11	CARBON	4.7K	5%	1/4W	
R758	1-240-855-81	CARBON	6.2K	5%	1/4W	F
R759	1-249-419-11	CARBON	1.5K	5%	1/4W	
R760	1-247-881-00	CARBON	120K	5%	1/4W	
R761	1-249-431-11	CARBON	15K	5%	1/4W	
R762	1-249-393-11	CARBON	10	5%	1/4W	F
R763	1-247-871-11	CARBON	47K	5%	1/4W	
R764	1-249-389-11	CARBON	4.7	5%	1/4W	F
R781	1-247-847-11	CARBON	4.7K	5%	1/4W	
R782	1-247-847-11	CARBON	4.7K	5%	1/4W	
R783	1-247-847-11	CARBON	4.7K	5%	1/4W	
R784	1-249-404-00	CARBON	82	5%	1/4W	F
R785	1-249-404-00	CARBON	82	5%	1/4W	F
R786	1-247-847-11	CARBON	4.7K	5%	1/4W	

Ref. No.	Part No.	Description			Remark	
R787	1-247-847-11	CARBON	4.7K	5%	1/4W	
R788	1-249-427-11	CARBON	6.8K	5%	1/4W	
R789	1-247-871-11	CARBON	47K	5%	1/4W	
R790	1-247-831-11	CARBON	1K	5%	1/4W	
R791	1-247-871-11	CARBON	47K	5%	1/4W	
⚠R792	1-215-868-00	METAL OXIDE	680	5%	1W	F
⚠R793	1-215-868-00	METAL OXIDE	680	5%	1W	F
R794	1-249-429-11	CARBON	10K	5%	1/4W	
R795	1-249-404-00	CARBON	82	5%	1/4W	F
R901	1-247-847-11	CARBON	4.7K	5%	1/4W	
R902	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R903	1-219-237-11	SOLID	3.3M	20%	1/2W (US,CND)	F
R904	1-249-435-11	CARBON	33K	5%	1/4W	
R905	1-247-863-11	CARBON	22K	5%	1/4W	
R906	1-249-421-11	CARBON	2.2K	5%	1/4W	
R907	1-249-428-11	CARBON	8.2K	5%	1/4W	
R908	1-249-422-11	CARBON	2.7K	5%	1/4W	
R909	1-249-431-11	CARBON	15K	5%	1/4W	
R910	1-249-429-11	CARBON	10K	5%	1/4W	
R911	1-247-843-11	CARBON	3.3K	5%	1/4W	
R912	1-247-831-11	CARBON	1K	5%	1/4W	
R913	1-249-404-00	CARBON	82	5%	1/4W	F
R914	1-247-847-11	CARBON	4.7K	5%	1/4W	
⚠R915	1-240-877-11	FUSIBLE	0.15	5%	1/2W	F
R916	1-249-389-11	CARBON	4.7	5%	1/4W	F
R917	1-249-429-11	CARBON	10K	5%	1/4W	
R918	1-247-831-11	CARBON	1K	5%	1/4W	
R919	1-247-871-11	CARBON	47K	5%	1/4W	
R920	1-247-871-11	CARBON	47K	5%	1/4W	
R923	1-249-429-11	CARBON	10K	5%	1/4W	
R926	1-247-791-11	CARBON	22	5%	1/4W	
R929	1-249-401-11	CARBON	47	5%	1/4W	F
R930	1-249-401-11	CARBON	47	5%	1/4W	F
R941	1-249-409-11	CARBON	220	5%	1/4W (AEP)	
R942	1-249-429-11	CARBON	10K	5%	1/4W (AEP)	
R943	1-249-419-11	CARBON	1.5K	5%	1/4W (AEP)	
R944	1-247-863-11	CARBON	22K	5%	1/4W (AEP)	
R945	1-249-429-11	CARBON	10K	5%	1/4W (AEP)	
R946	1-249-429-11	CARBON	10K	5%	1/4W (AEP)	
R947	1-249-429-11	CARBON	10K	5%	1/4W (AEP)	
RR701	1-249-393-11	CARBON	10	5%	1/4W (AEP)	F
RR702	1-249-393-11	CARBON	10	5%	1/4W (AEP)	F
RR751	1-249-393-11	CARBON	10	5%	1/4W (AEP)	F
RR752	1-249-393-11	CARBON	10	5%	1/4W (AEP)	F
		< RELAY >				
RY781	1-755-416-12	RELAY				
RY782	1-755-416-12	RELAY				
RY783	1-755-416-12	RELAY				
RY981	1-755-013-11	RELAY				
⚠RY982	1-755-276-31	RELAY, POWER				
		< TRANSFORMER >				
⚠T902	1-435-281-11	TRANSFORMER, POWER (US,CND)				
⚠T902	1-435-282-11	TRANSFORMER, POWER (AEP)				
		< TERMINAL BOARD >				
TM801	1-537-376-11	TERMINAL BOARD (8P) (SPEAKERS)				

****

POWER BOARD
****

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CNP201	1-779-977-11	PIN, CONNECTOR 6P			
		< DIODE >			
D205	8-719-061-96	LED SLR-325DCT31 (SPEAKER A)			
D206	8-719-061-96	LED SLR-325DCT31 (SPEAKER B)			
		< TRANSISTOR >			
Q204	8-729-029-86	TRANSISTOR DTC124ESA			
Q205	8-729-029-86	TRANSISTOR DTC124ESA			
		< RESISTOR >			
R289	1-249-413-11	CARBON	470	5%	1/4W
R290	1-249-413-11	CARBON	470	5%	1/4W
R297	1-247-831-11	CARBON	1K	5%	1/4W
		< SWITCH >			
S201	1-771-410-21	SWITCH, TACTILE (I/⏻)			
S202	1-771-410-21	SWITCH, TACTILE (SPEAKER A)			
S203	1-771-410-21	SWITCH, TACTILE (SPEAKER B)			

****

VOLUME BOARD
****

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN202	1-750-195-11	CONNECTOR, BOARD TO BOARD 6P			
		< RESISTOR >			
R265	1-247-831-11	CARBON	1K	5%	1/4W
R266	1-249-421-11	CARBON	2.2K	5%	1/4W
R267	1-249-421-11	CARBON	2.2K	5%	1/4W
R268	1-247-847-11	CARBON	4.7K	5%	1/4W
R269	1-249-429-11	CARBON	10K	5%	1/4W
R270	1-247-863-11	CARBON	22K	5%	1/4W
		< ROTARY ENCODER >			
RV201	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
		< SWITCH >			
S224	1-771-410-21	SWITCH, TACTILE (BALANCE R)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

VOLUME

Ref. No.	Part No.	Description	Remark
S225	1-771-410-21	SWITCH, TACTILE (TREBLE +)	
S226	1-771-410-21	SWITCH, TACTILE (BASS +)	
S227	1-771-410-21	SWITCH, TACTILE (BALANCE L)	
S228	1-771-410-21	SWITCH, TACTILE (TREBLE –)	
S229	1-771-410-21	SWITCH, TACTILE (BASS –)	

****

MISCELLANEOUS
****

Ref. No.	Part No.	Description	Remark
55	1-773-026-11	WIRE (FLAT TYPE) (15 CORE)	
59	1-773-026-11	WIRE (FLAT TYPE) (15 CORE) (US,CND)	
59	1-773-060-11	WIRE (FLAT TYPE) (17 CORE) (AEP)	
⚠105	1-777-071-23	CORD, POWER (AEP)	
⚠105	1-783-820-11	CORD, POWER (US,CND)	
107	1-769-942-11	WIRE (FLAT TYPE) (11 CORE) (US,CND)	
107	1-773-006-11	WIRE (FLAT TYPE) (15 CORE) (AEP)	
⚠F901	1-533-453-12	FUSE, GLASS TUBE (DIA.5) (5A/125V)	(US,CND)
⚠F901	1-533-469-12	FUSE, GLASS TUBE (DIA.5) (T2.5AL/250V)	(AEP)
⚠F902	1-533-453-12	FUSE, GLASS TUBE (DIA.5) (5A/125V)	(US,CND)
⚠F902	1-533-469-12	FUSE, GLASS TUBE (DIA.5) (T2.5AL/250V)	(AEP)
Q703	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q704	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q753	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q754	8-749-010-26	TRANSISTOR MP1620-OPY-M	
⚠T901	1-443-188-11	TRANSFORMER, POWER (US,CND)	
⚠T901	1-443-189-11	TRANSFORMER, POWER (AEP)	
TN1	1-693-577-13	TUNER PACK (ANTENNA) (US,CND)	
TN1	1-693-578-13	TUNER PACK (ANTENNA) (AEP)	

****

ACCESSORIES
****

Ref. No.	Part No.	Description	Remark
	1-477-133-11	COMMANDER, STANDARD (RM-U185)	
	1-501-374-12	ANTENNA, LOOP (AM)	
	1-501-807-12	ANTENNA (FM) (AEP)	
	1-793-184-23	CONNECTOR (F TYPE ADAPTOR) (FM)	(US,CND)
	4-228-696-01	COVER, BATTERY (for RM-U185)	
	4-253-437-11	MANUAL, INSTRUCTION (ENGLISH)	
	4-253-437-21	MANUAL, INSTRUCTION (FRENCH,DUTCH, SWEDISH,GERMAN,SPANISH, ITALIAN,POLISH)	(AEP)
	4-253-437-31	MANUAL, INSTRUCTION (DANISH,FINNISH)	(AEP)
	4-253-437-41	MANUAL, INSTRUCTION (PORTUGUESE)	(AEP)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

STR-DE197

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model

Ver. 1.3 2006. 09

SUPPLEMENT-1

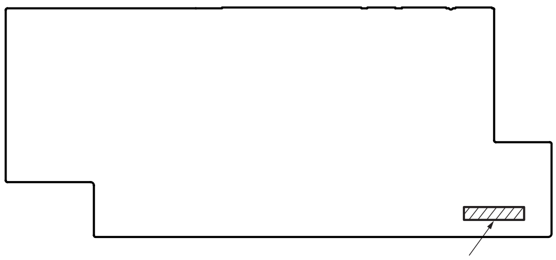
File this supplement with the service manual.

Subject:	Change the MAIN, DISPLAY, VOLUME, H.PHONE, POWER, FUNCTION KEY and AC OUTLET boards.

Printed wiring board and schematic diagram of new type, and changed parts list are described in this Supplement-1.
When performing service and inspection, check the part number of the MAIN, DISPLAY, VOLUME, H.PHONE, POWER, FUNCTION KEY and AC OUTLET boards.

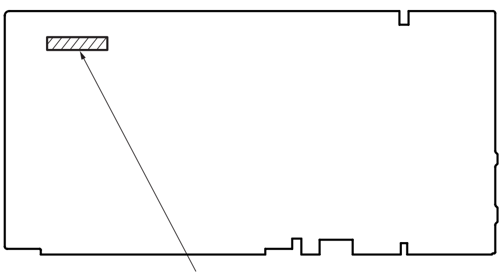
DISCRIMINATION

— MAIN BOARD (COMPONENT SIDE) —



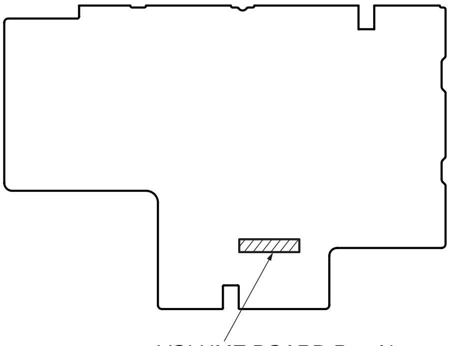
MAIN BOARD Part No.
Former : 1-861-592-11
New : 1-871-790-11

— DISPLAY BOARD (COMPONENT SIDE) —



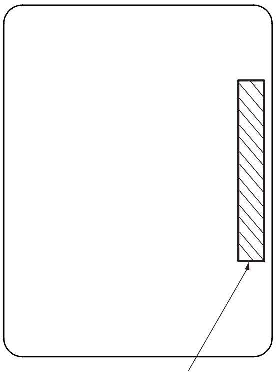
DISPLAY BOARD Part No.
Former : 1-861-586-11
New : 1-871-791-11

— VOLUME BOARD (COMPONENT SIDE) —



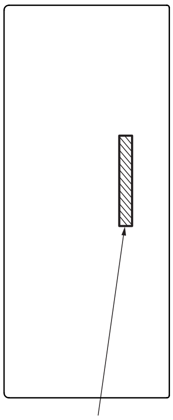
VOLUME BOARD Part No.
Former : 1-861-587-11
New : 1-871-792-11

— H.PHONE BOARD (COMPONENT SIDE) —



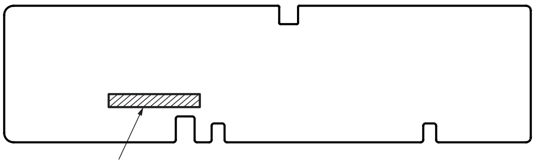
H.PHONE BOARD Part No.
Former : 1-861-590-11
New : 1-871-793-11

— POWER BOARD (COMPONENT SIDE) —



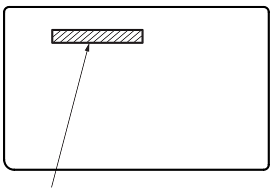
POWER BOARD Part No.
Former : 1-861-591-11
New : 1-871-794-11

— FUNCTION KEY BOARD (COMPONENT SIDE) —



FUNCTION KEY BOARD Part No.
Former : 1-861-588-11
New : 1-871-795-11

— AC OUTLET BOARD (COMPONENT SIDE) —



AC OUTLET BOARD Part No.
Former : 1-861-589-11
New : 1-871-796-11

TABLE OF CONTENTS

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2. Schematic Diagram –Main Section (1/2)– 5
3. Schematic Diagram –Main Section (2/2)– 6
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5. Schematic Diagram –Panel Section– 8
6. Electrical Parts List 9

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

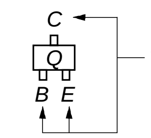
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

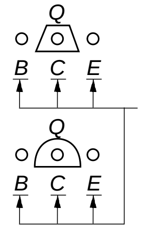
- : B+ Line.
- : B– Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (FM/AM)
  - : VIDEO (AUDIO)
  - : CD (ANALOG)
- Abbreviation
  CND : Canadian model.
- (( )): Page of Supplement-1.

for printed wiring boards:

- : parts extracted from the component side.
- △ : internal component.
- : Pattern from the side which enables seeing.
- Abbreviation
  CND : Canadian model.
- (( )): Page of Supplement-1.



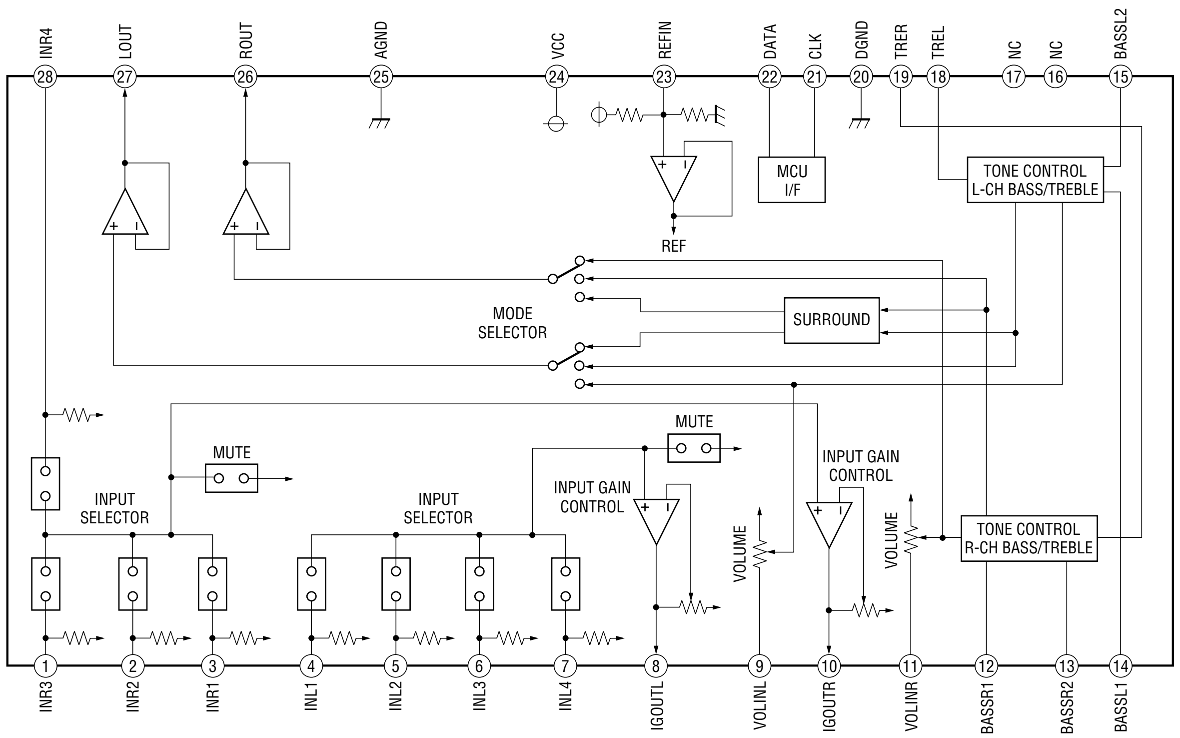
These are omitted.



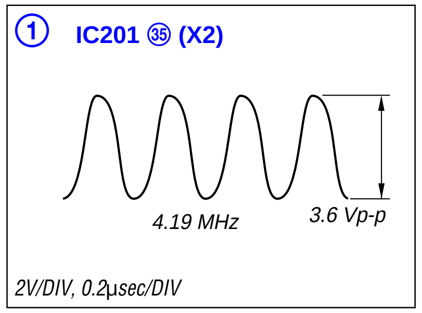
These are omitted.

• IC Block Diagram

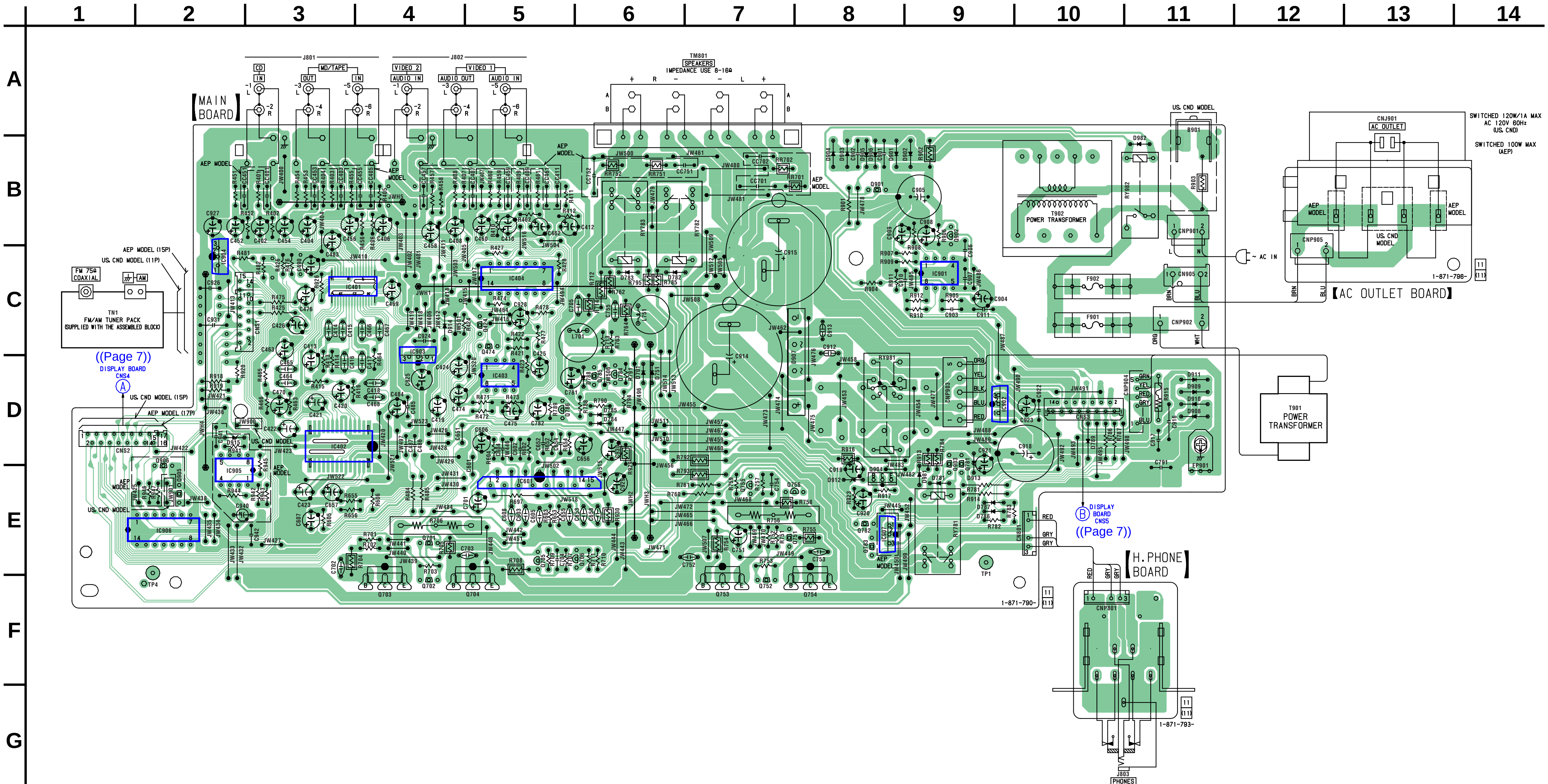
IC402 R2S15904SP



• Waveform



1. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 13 of Service Manual for Circuit Boards Location. : Uses unleaded solder.

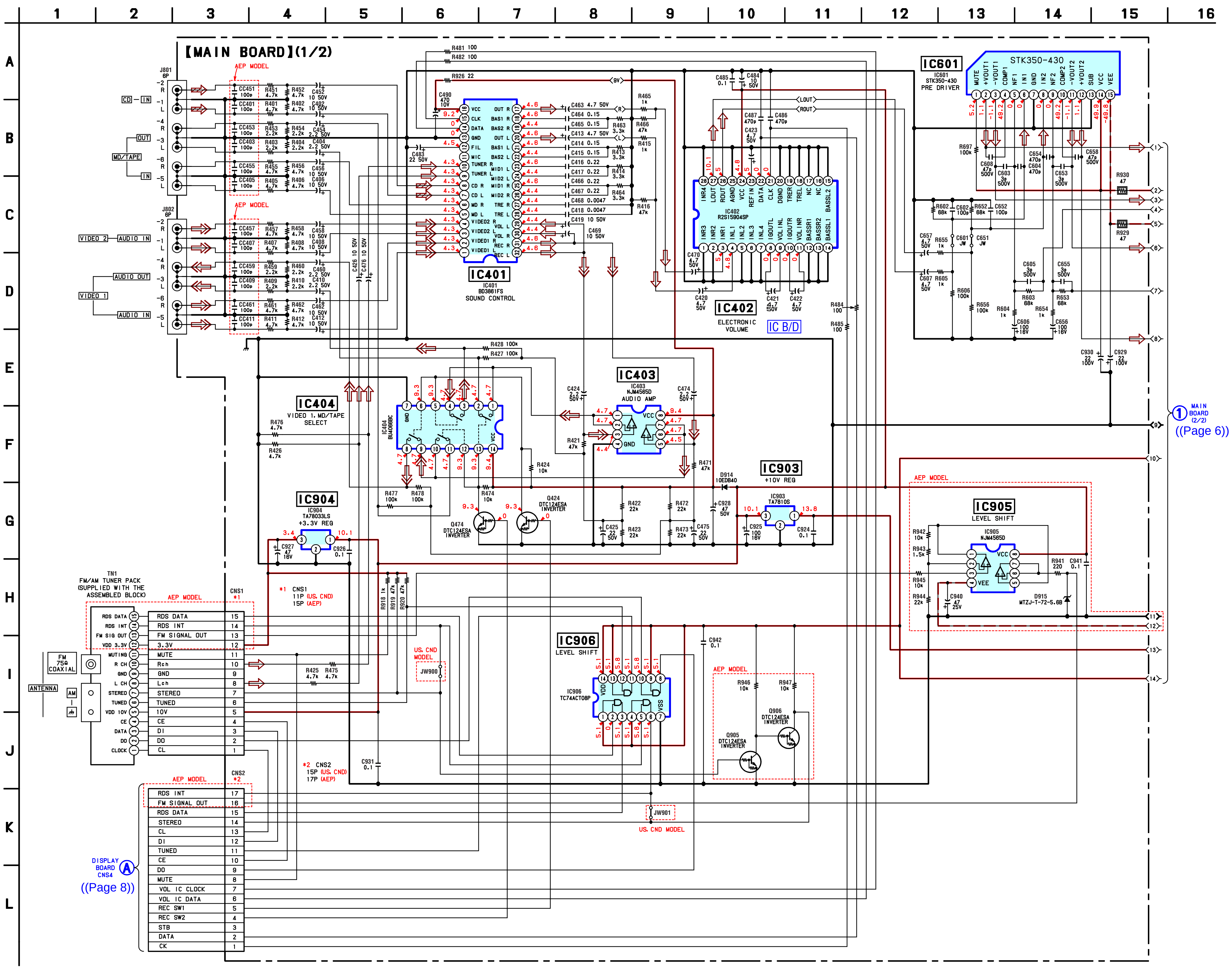


• Semiconductor Location

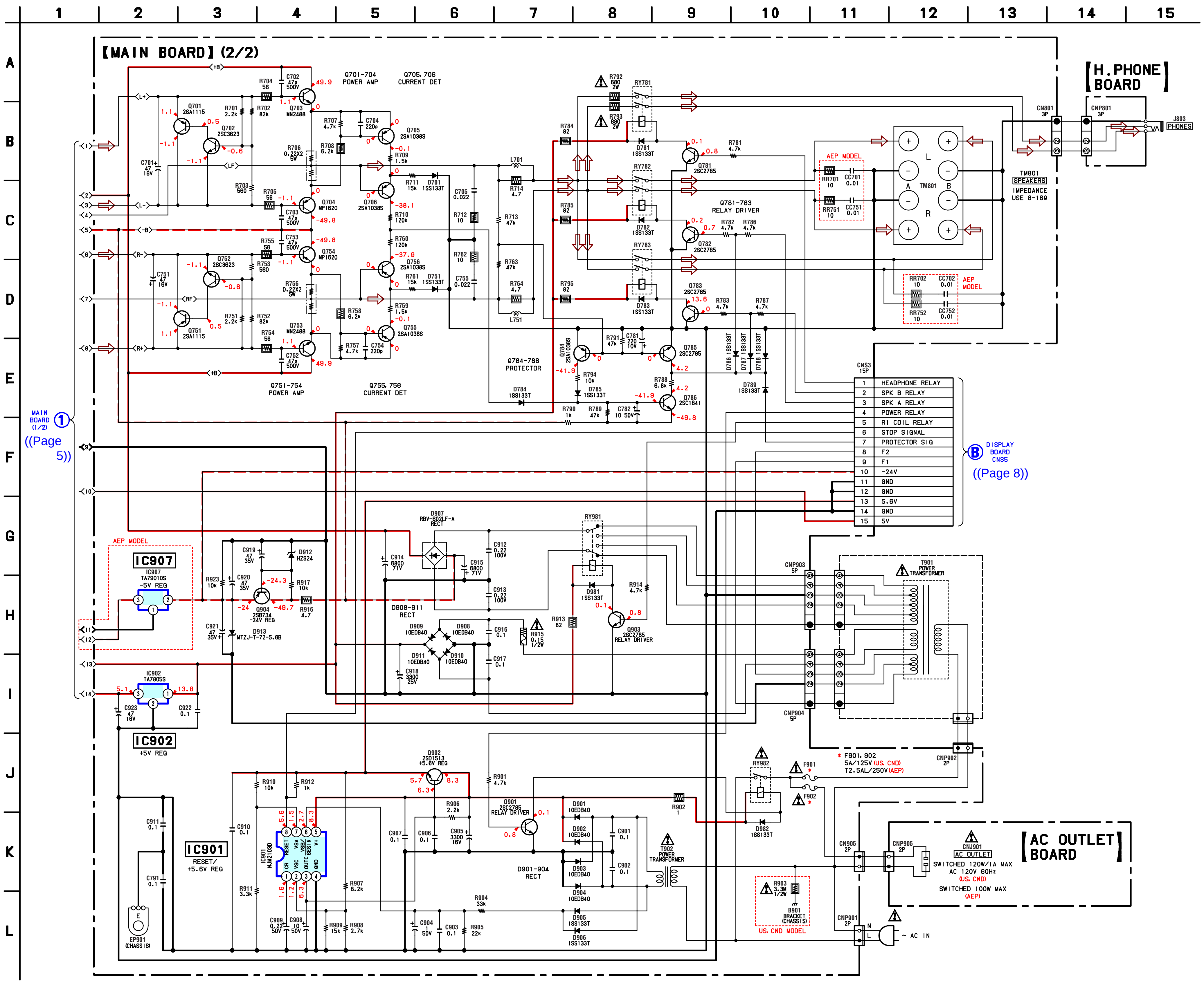
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D701	D-6	D907	D-7	IC901	C-9	Q752	F-7
D751	D-6	D908	D-11	IC902	D-9	Q753	F-7
D781	E-9	D909	D-11	IC903	C-4	Q754	F-8
D782	C-6	D910	D-11	IC904	C-2	Q755	E-7
D783	C-6	D911	D-11	(IC905)	E-2	Q756	E-7
D784	D-6	D912	E-8	IC906	E-2	Q781	D-9
D785	D-6	D913	E-9	(IC907)	E-8	Q782	E-8
D786	E-9	D914	C-4			Q783	E-8
D787	E-9	(D915)	D-2	Q424	C-5	Q784	D-6
D788	D-6	D981	E-9	Q474	C-5	Q785	D-6
D789	D-10	D982	B-11	Q701	E-4	Q786	D-5
D901	B-8			Q702	F-4	Q901	B-8
D902	B-9	IC401	C-3	Q703	F-4	Q902	B-9
D903	B-8	IC402	D-3	Q704	F-5	Q903	D-9
D904	B-8	IC403	D-5	Q705	E-5	Q904	E-8
D905	B-8	IC404	C-5	Q706	E-6	(Q905)	E-2
D906	B-8	IC601	E-5	Q751	E-7	(Q906)	D-2

( ) : AEP model only

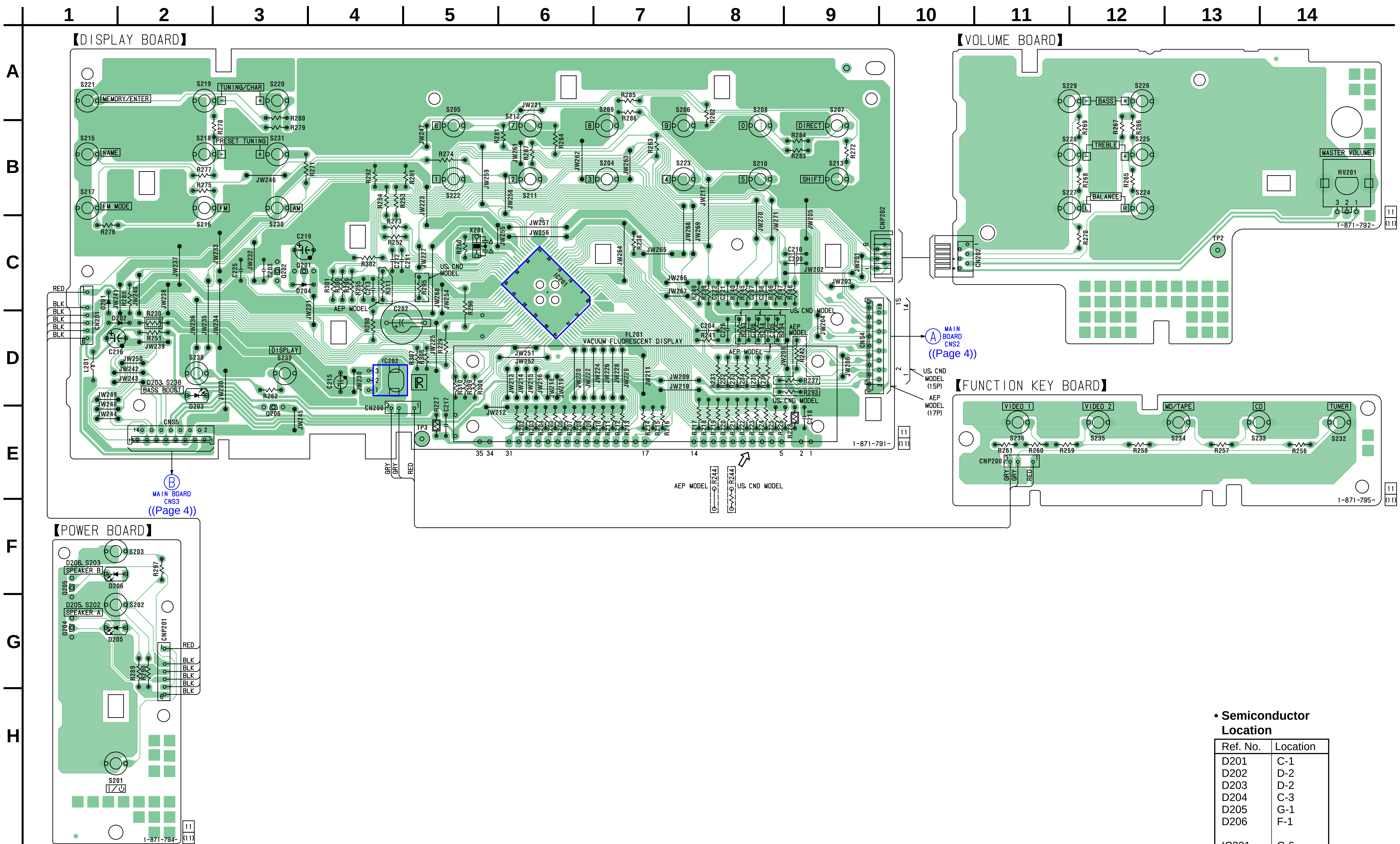
2. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 3 of Supplement-1 for IC Block Diagram.



3. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) —



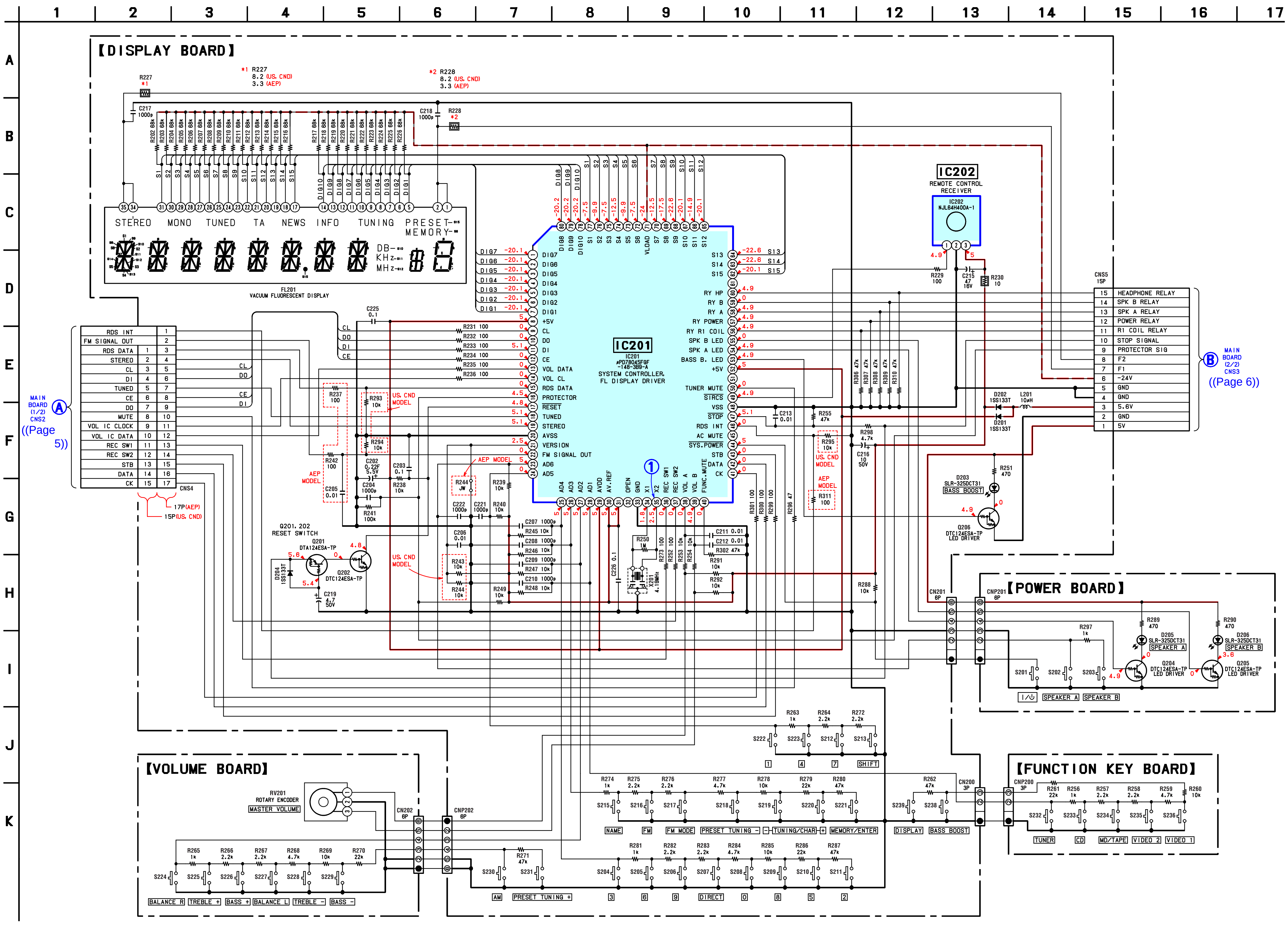
4. PRINTED WIRING BOARDS — PANEL SECTION — • Refer to page 13 of Service Manual for Circuit Boards Location. : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D201	C-1
D202	D-2
D203	D-2
D204	C-3
D205	G-1
D206	F-1
IC201	C-6
IC202	D-4
Q201	C-3
Q202	C-3
Q204	G-1
Q205	F-1
Q206	E-3

5. SCHEMATIC DIAGRAM — PANEL SECTION — • Refer to page 3 of Supplement-1 for Waveform.



6. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  CND : Canadian model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		AC OUTLET BOARD	
		***************	
		< AC OUTLET >	
⚠CNJ901	1-785-285-11	OUTLET, AC (1P) (AC OUTLET) (AEP)	
⚠CNJ901	1-785-834-11	OUTLET, AC (1P) (AC OUTLET) (US,CND)	
		< CONNECTOR >	
CNP905	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
**			
	A-1212-649-A	DISPLAY BOARD, COMPLETE (US,CND)	
	A-1212-658-A	DISPLAY BOARD, COMPLETE (AEP)	
		************************	
	2-887-959-01	HOLDER, FL	
		< CAPACITOR >	
C202	1-104-905-11	DOUBLE LAYERS 0.22F 5.5V	
C203	1-164-159-11	CERAMIC 0.1uF 50V	
C204	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C205	1-127-876-11	CERAMIC 0.01uF 10% 50V	(AEP)
C206	1-127-876-11	CERAMIC 0.01uF 10% 50V	
C207	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C208	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C209	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C210	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C211	1-127-876-11	CERAMIC 0.01uF 10% 50V	
C212	1-127-876-11	CERAMIC 0.01uF 10% 50V	
C213	1-127-876-11	CERAMIC 0.01uF 10% 50V	
C215	1-126-947-11	ELECT 47uF 20% 35V	
C216	1-126-795-11	ELECT 10uF 20% 50V	
C217	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C218	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C219	1-126-794-11	ELECT 4.7uF 20% 50V	
C221	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C222	1-128-821-11	CERAMIC 0.001uF 5% 50V	
C225	1-164-159-11	CERAMIC 0.1uF 50V	
C226	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CNP202	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P	
CNS4	1-784-776-11	CONNECTOR, FFC 15P (US,CND)	
CNS4	1-784-778-11	CONNECTOR, FFC 17P (AEP)	
CNS5	1-784-776-11	CONNECTOR, FFC 15P	
		< DIODE >	
D201	8-719-991-33	DIODE 1SS133T-77	
D202	8-719-991-33	DIODE 1SS133T-77	
D203	8-719-061-96	LED SLR-325DCT31 (BASS BOOST)	
D204	8-719-991-33	DIODE 1SS133T-77	
		< VACUUM FLUORESCENT DISPLAY >	
FL201	1-519-923-11	VACUUM FLUORESCENT DISPLAY	
		< IC >	
IC201	6-806-993-01	IC uPD78045FGF-148-3B9-A	
IC202	8-759-827-70	IC NJL64H400A-1 (IR)	
		< COIL >	
L201	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q201	8-729-029-40	TRANSISTOR DTA124ESA	
Q202	8-729-029-86	TRANSISTOR DTC124ESA	
Q206	8-729-029-86	TRANSISTOR DTC124ESA	
		< RESISTOR >	
R202	1-249-439-11	CARBON 68K 5% 1/4W	
R203	1-249-439-11	CARBON 68K 5% 1/4W	
R204	1-249-439-11	CARBON 68K 5% 1/4W	
R205	1-249-439-11	CARBON 68K 5% 1/4W	
R206	1-249-439-11	CARBON 68K 5% 1/4W	
R207	1-249-439-11	CARBON 68K 5% 1/4W	
R208	1-249-439-11	CARBON 68K 5% 1/4W	
R209	1-249-439-11	CARBON 68K 5% 1/4W	
R210	1-249-439-11	CARBON 68K 5% 1/4W	
R211	1-249-439-11	CARBON 68K 5% 1/4W	
R212	1-249-439-11	CARBON 68K 5% 1/4W	
R213	1-249-439-11	CARBON 68K 5% 1/4W	
R214	1-249-439-11	CARBON 68K 5% 1/4W	
R215	1-249-439-11	CARBON 68K 5% 1/4W	
R216	1-249-439-11	CARBON 68K 5% 1/4W	
R217	1-249-439-11	CARBON 68K 5% 1/4W	
R218	1-249-439-11	CARBON 68K 5% 1/4W	
R219	1-249-439-11	CARBON 68K 5% 1/4W	
R220	1-249-439-11	CARBON 68K 5% 1/4W	
R221	1-249-439-11	CARBON 68K 5% 1/4W	

DISPLAY

Ref. No.	Part No.	Description			Remark
R222	1-249-439-11	CARBON	68K	5%	1/4W
R223	1-249-439-11	CARBON	68K	5%	1/4W
R224	1-249-439-11	CARBON	68K	5%	1/4W
R225	1-249-439-11	CARBON	68K	5%	1/4W
R226	1-249-439-11	CARBON	68K	5%	1/4W
R227	1-249-387-81	CARBON	3.3	5%	1/4W F (AEP)
R227	1-249-392-81	CARBON	8.2	5%	1/4W F (US,CND)
R228	1-249-387-81	CARBON	3.3	5%	1/4W F (AEP)
R228	1-249-392-81	CARBON	8.2	5%	1/4W F (US,CND)
R229	1-247-807-31	CARBON	100	5%	1/4W
R230	1-249-393-11	CARBON	10	5%	1/4W F
R231	1-247-807-31	CARBON	100	5%	1/4W
R232	1-247-807-31	CARBON	100	5%	1/4W
R233	1-247-807-31	CARBON	100	5%	1/4W
R234	1-247-807-31	CARBON	100	5%	1/4W
R235	1-247-807-31	CARBON	100	5%	1/4W
R236	1-247-807-31	CARBON	100	5%	1/4W
R237	1-247-807-31	CARBON	100	5%	1/4W (AEP)
R238	1-249-429-11	CARBON	10K	5%	1/4W
R239	1-249-429-11	CARBON	10K	5%	1/4W
R240	1-249-429-11	CARBON	10K	5%	1/4W
R241	1-247-879-11	CARBON	100K	5%	1/4W
R242	1-247-807-31	CARBON	100	5%	1/4W (AEP)
R243	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R244	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R245	1-249-429-11	CARBON	10K	5%	1/4W
R246	1-249-429-11	CARBON	10K	5%	1/4W
R247	1-249-429-11	CARBON	10K	5%	1/4W
R248	1-249-429-11	CARBON	10K	5%	1/4W
R249	1-249-429-11	CARBON	10K	5%	1/4W
R250	1-247-903-00	CARBON	1M	5%	1/4W
R251	1-249-413-11	CARBON	470	5%	1/4W
R252	1-247-807-31	CARBON	100	5%	1/4W
R253	1-249-429-11	CARBON	10K	5%	1/4W
R254	1-249-429-11	CARBON	10K	5%	1/4W
R255	1-247-871-11	CARBON	47K	5%	1/4W
R262	1-247-871-11	CARBON	47K	5%	1/4W
R263	1-247-831-11	CARBON	1K	5%	1/4W
R264	1-249-421-11	CARBON	2.2K	5%	1/4W
R271	1-247-871-11	CARBON	47K	5%	1/4W
R272	1-249-421-11	CARBON	2.2K	5%	1/4W
R273	1-247-807-31	CARBON	100	5%	1/4W
R274	1-247-831-11	CARBON	1K	5%	1/4W
R275	1-249-421-11	CARBON	2.2K	5%	1/4W
R276	1-249-421-11	CARBON	2.2K	5%	1/4W
R277	1-247-847-11	CARBON	4.7K	5%	1/4W
R278	1-249-429-11	CARBON	10K	5%	1/4W
R279	1-247-863-11	CARBON	22K	5%	1/4W
R280	1-247-871-11	CARBON	47K	5%	1/4W
R281	1-247-831-11	CARBON	1K	5%	1/4W
R282	1-249-421-11	CARBON	2.2K	5%	1/4W
R283	1-249-421-11	CARBON	2.2K	5%	1/4W
R284	1-247-847-11	CARBON	4.7K	5%	1/4W
R285	1-249-429-11	CARBON	10K	5%	1/4W
R286	1-247-863-11	CARBON	22K	5%	1/4W
R287	1-247-871-11	CARBON	47K	5%	1/4W
R288	1-249-429-11	CARBON	10K	5%	1/4W
R291	1-249-429-11	CARBON	10K	5%	1/4W
R292	1-249-429-11	CARBON	10K	5%	1/4W
R293	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R294	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R295	1-249-429-11	CARBON	10K	5%	1/4W (US,CND)
R296	1-249-401-11	CARBON	47	5%	1/4W
R298	1-247-847-11	CARBON	4.7K	5%	1/4W
R299	1-247-807-31	CARBON	100	5%	1/4W
R300	1-247-807-31	CARBON	100	5%	1/4W
R301	1-247-807-31	CARBON	100	5%	1/4W
R302	1-247-871-11	CARBON	47K	5%	1/4W
R306	1-247-871-11	CARBON	47K	5%	1/4W
R307	1-247-871-11	CARBON	47K	5%	1/4W
R308	1-247-871-11	CARBON	47K	5%	1/4W
R309	1-247-871-11	CARBON	47K	5%	1/4W
R310	1-247-871-11	CARBON	47K	5%	1/4W
R311	1-247-807-31	CARBON	100	5%	1/4W (AEP)
		< SWITCH >			
S204	1-771-410-21	SWITCH, TACTILE (3)			
S205	1-771-410-21	SWITCH, TACTILE (6)			
S206	1-771-410-21	SWITCH, TACTILE (9)			
S207	1-771-410-21	SWITCH, TACTILE (DIRECT)			
S208	1-771-410-21	SWITCH, TACTILE (0)			
S209	1-771-410-21	SWITCH, TACTILE (8)			
S210	1-771-410-21	SWITCH, TACTILE (5)			
S211	1-771-410-21	SWITCH, TACTILE (2)			
S212	1-771-410-21	SWITCH, TACTILE (7)			
S213	1-771-410-21	SWITCH, TACTILE (SHIFT)			
S215	1-771-410-21	SWITCH, TACTILE (NAME)			
S216	1-771-410-21	SWITCH, TACTILE (FM)			
S217	1-771-410-21	SWITCH, TACTILE (FM MODE)			
S218	1-771-410-21	SWITCH, TACTILE (PRESET TUNING –)			
S219	1-771-410-21	SWITCH, TACTILE (TUNING/CHAR –)			
S220	1-771-410-21	SWITCH, TACTILE (TUNING/CHAR +)			
S221	1-771-410-21	SWITCH, TACTILE (MEMORY/ENTER)			
S222	1-771-410-21	SWITCH, TACTILE (1)			
S223	1-771-410-21	SWITCH, TACTILE (4)			
S230	1-771-410-21	SWITCH, TACTILE (AM)			
S231	1-771-410-21	SWITCH, TACTILE (PRESET TUNING +)			
S238	1-771-410-21	SWITCH, TACTILE (BASS BOOST)			
S239	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
		< VIBRATOR >			
X201	1-795-736-21	VIBRATOR, CERAMIC (4.19MHz)			

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Ref. No.	Part No.	Description			Remark
		FUNCTION KEY BOARD			
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		< RESISTOR >			
R256	1-247-831-11	CARBON	1K	5%	1/4W
R257	1-249-421-11	CARBON	2.2K	5%	1/4W
R258	1-249-421-11	CARBON	2.2K	5%	1/4W
R259	1-247-847-11	CARBON	4.7K	5%	1/4W
R260	1-249-429-11	CARBON	10K	5%	1/4W
R261	1-247-863-11	CARBON	22K	5%	1/4W
		< SWITCH >			
S232	1-771-410-21	SWITCH, TACTILE (TUNER)			
S233	1-771-410-21	SWITCH, TACTILE (CD)			
S234	1-771-410-21	SWITCH, TACTILE (MD/TAPE)			
S235	1-771-410-21	SWITCH, TACTILE (VIDEO 2)			
S236	1-771-410-21	SWITCH, TACTILE (VIDEO 1)			

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Ref. No.	Part No.	Description			Remark
		H.PHONE BOARD			
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		< CONNECTOR >			
CNP801	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< JACK >			
J803	1-815-314-21	JACK (PHONES)			

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Ref. No.	Part No.	Description			Remark
	A-1212-652-A	MAIN BOARD, COMPLETE (US,CND)			
	A-1212-659-A	MAIN BOARD, COMPLETE (AEP)			
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	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C402	1-126-964-11	ELECT	10uF	20%	50V
C404	1-126-961-11	ELECT	2.2uF	20%	50V
C406	1-126-964-11	ELECT	10uF	20%	50V
C408	1-126-964-11	ELECT	10uF	20%	50V
C410	1-126-961-11	ELECT	2.2uF	20%	50V
C412	1-126-964-11	ELECT	10uF	20%	50V
C413	1-126-963-11	ELECT	4.7uF	20%	50V
C414	1-136-167-00	FILM	0.15uF	5%	50V
C415	1-136-167-00	FILM	0.15uF	5%	50V
C416	1-137-190-11	FILM	0.22uF	5%	50V
C417	1-137-190-11	FILM	0.22uF	5%	50V
C418	1-136-287-11	FILM	0.0047uF	5%	100V
C419	1-126-964-11	ELECT	10uF	20%	50V
C420	1-126-963-11	ELECT	4.7uF	20%	50V
C421	1-126-963-11	ELECT	4.7uF	20%	50V
C422	1-126-963-11	ELECT	4.7uF	20%	50V
C423	1-126-963-11	ELECT	4.7uF	20%	50V
C424	1-126-961-11	ELECT	2.2uF	20%	50V
C425	1-126-965-11	ELECT	22uF	20%	50V
C426	1-126-964-11	ELECT	10uF	20%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V
C454	1-126-961-11	ELECT	2.2uF	20%	50V
C456	1-126-964-11	ELECT	10uF	20%	50V
C458	1-126-964-11	ELECT	10uF	20%	50V
C460	1-126-961-11	ELECT	2.2uF	20%	50V
C462	1-126-964-11	ELECT	10uF	20%	50V
C463	1-126-963-11	ELECT	4.7uF	20%	50V
C464	1-136-167-00	FILM	0.15uF	5%	50V
C465	1-136-167-00	FILM	0.15uF	5%	50V
C466	1-137-190-11	FILM	0.22uF	5%	50V
C467	1-137-190-11	FILM	0.22uF	5%	50V
C468	1-136-287-11	FILM	0.0047uF	5%	100V
C469	1-126-964-11	ELECT	10uF	20%	50V
C470	1-126-963-11	ELECT	4.7uF	20%	50V
C474	1-126-961-11	ELECT	2.2uF	20%	50V
C475	1-126-965-11	ELECT	22uF	20%	50V
C476	1-126-964-11	ELECT	10uF	20%	50V
C483	1-126-965-11	ELECT	22uF	20%	50V
C484	1-126-964-11	ELECT	10uF	20%	50V
C485	1-164-159-11	CERAMIC	0.1uF		50V
C486	1-128-817-11	CERAMIC	470PF	5%	50V
C487	1-128-817-11	CERAMIC	470PF	5%	50V
C490	1-126-925-11	ELECT	470uF	20%	10V
C602	1-128-809-11	CERAMIC	100PF	5%	50V
C603	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C604	1-128-817-11	CERAMIC	470PF	5%	50V
C605	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C606	1-126-933-11	ELECT	100uF	20%	16V
C607	1-126-963-11	ELECT	4.7uF	20%	50V
C608	1-162-815-11	CERAMIC	47PF	5%	500V
C652	1-128-809-11	CERAMIC	100PF	5%	50V
C653	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C654	1-128-817-11	CERAMIC	470PF	5%	50V
C655	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C656	1-126-933-11	ELECT	100uF	20%	16V
C657	1-126-963-11	ELECT	4.7uF	20%	50V
C658	1-162-815-11	CERAMIC	47PF	5%	500V
C701	1-126-947-11	ELECT	47uF	20%	35V
C702	1-162-815-11	CERAMIC	47PF	5%	500V
C703	1-162-815-11	CERAMIC	47PF	5%	500V
C704	1-128-813-11	CERAMIC	220PF	5%	50V
C705	1-137-372-11	MYLAR	0.022uF	5%	50V
C751	1-126-947-11	ELECT	47uF	20%	35V
C752	1-162-815-11	CERAMIC	47PF	5%	500V
C753	1-162-815-11	CERAMIC	47PF	5%	500V
C754	1-128-813-11	CERAMIC	220PF	5%	50V
C755	1-137-372-11	MYLAR	0.022uF	5%	50V
C781	1-126-923-11	ELECT	220uF	20%	10V
C782	1-126-964-11	ELECT	10uF	20%	50V
C791	1-164-159-11	CERAMIC	0.1uF		50V
C901	1-164-159-11	CERAMIC	0.1uF		50V
C902	1-164-159-11	CERAMIC	0.1uF		50V
C903	1-164-159-11	CERAMIC	0.1uF		50V
C904	1-126-960-11	ELECT	1uF	20%	50V
C905	1-126-936-11	ELECT	3300uF	20%	16V
C906	1-164-159-11	CERAMIC	0.1uF		50V
C907	1-164-159-11	CERAMIC	0.1uF		50V
C908	1-126-964-11	ELECT	10uF	20%	50V
C909	1-126-957-11	ELECT	0.22uF	20%	50V
C910	1-164-159-11	CERAMIC	0.1uF		50V
C911	1-164-159-11	CERAMIC	0.1uF		50V

MAIN

Ref. No.	Part No.	Description			Remark
C912	1-135-851-21	MYLAR	0.22uF		100V
C913	1-135-851-21	MYLAR	0.22uF		100V
C914	1-165-946-11	ELECT	6800uF	20%	71V
C915	1-165-946-11	ELECT	6800uF	20%	71V
C916	1-164-159-11	CERAMIC	0.1uF		50V
C917	1-164-159-11	CERAMIC	0.1uF		50V
C918	1-126-944-11	ELECT	3300uF	20%	25V
C919	1-126-947-11	ELECT	47uF	20%	35V
C920	1-126-947-11	ELECT	47uF	20%	35V
C921	1-126-947-11	ELECT	47uF	20%	35V
C922	1-127-888-11	CERAMIC	0.1uF	10%	50V
C923	1-126-947-11	ELECT	47uF	20%	35V
C924	1-127-888-11	CERAMIC	0.1uF	10%	50V
C925	1-126-933-11	ELECT	100uF	20%	16V
C926	1-127-888-11	CERAMIC	0.1uF	10%	50V
C927	1-126-947-11	ELECT	47uF	20%	35V
C928	1-126-967-11	ELECT	47uF	20%	50V
C929	1-128-560-11	ELECT	22uF	20%	100V
C930	1-128-560-11	ELECT	22uF	20%	100V
C931	1-164-159-11	CERAMIC	0.1uF		50V
C940	1-126-947-11	ELECT	47uF	20%	35V (AEP)
C941	1-164-159-11	CERAMIC	0.1uF		50V (AEP)
C942	1-164-159-11	CERAMIC	0.1uF		50V
CC401	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC403	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC405	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC407	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC409	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC411	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC451	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC453	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC455	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC457	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC459	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC461	1-128-809-11	CERAMIC	100PF	5%	50V (AEP)
CC701	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP)
CC702	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP)
CC751	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP)
CC752	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP)
		< CONNECTOR >			
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP902	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P			

Ref. No.	Part No.	Description	Remark
* CNP903	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P	
CNP904	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
CNS1	1-568-830-11	CONNECTOR, FFC 11P (US,CND)	
CNS1	1-784-776-11	CONNECTOR, FFC 15P (AEP)	
CNS2	1-784-776-11	CONNECTOR, FFC 15P (US,CND)	
CNS2	1-784-778-11	CONNECTOR, FFC 17P (AEP)	
CNS3	1-784-776-11	CONNECTOR, FFC 15P	
		< DIODE >	
D701	8-719-991-33	DIODE 1SS133T-77	
D751	8-719-991-33	DIODE 1SS133T-77	
D781	8-719-991-33	DIODE 1SS133T-77	
D782	8-719-991-33	DIODE 1SS133T-77	
D783	8-719-991-33	DIODE 1SS133T-77	
D784	8-719-991-33	DIODE 1SS133T-77	
D785	8-719-991-33	DIODE 1SS133T-77	
D786	8-719-991-33	DIODE 1SS133T-77	
D787	8-719-991-33	DIODE 1SS133T-77	
D788	8-719-991-33	DIODE 1SS133T-77	
D789	8-719-991-33	DIODE 1SS133T-77	
D901	6-500-522-11	DIODE 10EDB40-TA2B5	
D902	6-500-522-11	DIODE 10EDB40-TA2B5	
D903	6-500-522-11	DIODE 10EDB40-TA2B5	
D904	6-500-522-11	DIODE 10EDB40-TA2B5	
D905	8-719-991-33	DIODE 1SS133T-77	
D906	8-719-991-33	DIODE 1SS133T-77	
D907	8-719-072-05	DIODE RBV-602LF-A	
D908	6-500-522-11	DIODE 10EDB40-TA2B5	
D909	6-500-522-11	DIODE 10EDB40-TA2B5	
D910	6-500-522-11	DIODE 10EDB40-TA2B5	
D911	6-500-522-11	DIODE 10EDB40-TA2B5	
D912	8-719-986-54	DIODE HZS24-1LTA	
D913	8-719-109-89	DIODE RD5.6ESB2	
D914	6-500-522-11	DIODE 10EDB40-TA2B5	
D915	8-719-109-89	DIODE RD5.6ESB2 (AEP)	
D981	8-719-991-33	DIODE 1SS133T-77	
D982	8-719-991-33	DIODE 1SS133T-77	
		< EARTH TERMINAL >	
* EP901	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC401	6-700-261-01	IC BD3861FS	
IC402	6-710-289-01	IC R2S15904SP	
IC403	8-759-167-88	IC NJM4565D	
IC404	8-759-932-33	IC BU4066BC	
IC601	6-705-630-01	IC STK350-430	
IC901	8-759-333-83	IC NJM2103D	
IC902	8-759-231-53	IC TA7805S	
IC903	8-759-231-57	IC TA7810S	
IC904	6-702-771-01	IC TA78033LS	
IC905	8-759-167-88	IC NJM4565D (AEP)	
IC906	8-759-243-51	IC TC74ACT08P	
IC907	8-759-245-84	IC TA79010S (AEP)	

Ref. No.	Part No.	Description				Remark
		< JACK >				
J801	1-774-411-11	JACK, PIN 6P (CD IN,MD/TAPE OUT, MD/TAPE IN)				
J802	1-774-411-11	JACK, PIN 6P (VIDEO 2 AUDIO IN, VIDEO 1 AUDIO OUT/AUDIO IN)				
		< COIL >				
L701	1-420-872-52	COIL, AIR-CORE				
L751	1-420-872-52	COIL, AIR-CORE				
		< TRANSISTOR >				
Q424	8-729-029-86	TRANSISTOR	DTC124ESA			
Q474	8-729-029-86	TRANSISTOR	DTC124ESA			
Q701	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q702	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q705	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q706	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q751	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q752	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q755	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q756	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q781	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q782	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q783	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q784	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q785	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q786	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q901	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q902	8-729-045-21	TRANSISTOR	2SD1513TP-LK			
Q903	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q904	8-729-140-97	TRANSISTOR	2SB734-34			
Q905	8-729-029-86	TRANSISTOR	DTC124ESA (AEP)			
Q906	8-729-029-86	TRANSISTOR	DTC124ESA (AEP)			
		< RESISTOR >				
R401	1-247-847-11	CARBON	4.7K	5%	1/4W	
R402	1-247-847-11	CARBON	4.7K	5%	1/4W	
R403	1-249-421-11	CARBON	2.2K	5%	1/4W	
R404	1-249-421-11	CARBON	2.2K	5%	1/4W	
R405	1-247-847-11	CARBON	4.7K	5%	1/4W	
R406	1-247-847-11	CARBON	4.7K	5%	1/4W	
R407	1-247-847-11	CARBON	4.7K	5%	1/4W	
R408	1-247-847-11	CARBON	4.7K	5%	1/4W	
R409	1-249-421-11	CARBON	2.2K	5%	1/4W	
R410	1-249-421-11	CARBON	2.2K	5%	1/4W	
R411	1-247-847-11	CARBON	4.7K	5%	1/4W	
R412	1-247-847-11	CARBON	4.7K	5%	1/4W	
R413	1-247-843-11	CARBON	3.3K	5%	1/4W	
R414	1-247-843-11	CARBON	3.3K	5%	1/4W	
R415	1-247-831-11	CARBON	1K	5%	1/4W	
R416	1-247-871-11	CARBON	47K	5%	1/4W	
R421	1-247-871-11	CARBON	47K	5%	1/4W	
R422	1-247-863-11	CARBON	22K	5%	1/4W	
R423	1-247-863-11	CARBON	22K	5%	1/4W	
R424	1-249-429-11	CARBON	10K	5%	1/4W	
R425	1-247-847-11	CARBON	4.7K	5%	1/4W	
R426	1-247-847-11	CARBON	4.7K	5%	1/4W	
R427	1-247-879-11	CARBON	100K	5%	1/4W	
R428	1-247-879-11	CARBON	100K	5%	1/4W	
R451	1-247-847-11	CARBON	4.7K	5%	1/4W	
R452	1-247-847-11	CARBON	4.7K	5%	1/4W	
R453	1-249-421-11	CARBON	2.2K	5%	1/4W	
R454	1-249-421-11	CARBON	2.2K	5%	1/4W	
R455	1-247-847-11	CARBON	4.7K	5%	1/4W	
R456	1-247-847-11	CARBON	4.7K	5%	1/4W	
R457	1-247-847-11	CARBON	4.7K	5%	1/4W	
R458	1-247-847-11	CARBON	4.7K	5%	1/4W	
R459	1-249-421-11	CARBON	2.2K	5%	1/4W	
R460	1-249-421-11	CARBON	2.2K	5%	1/4W	
R461	1-247-847-11	CARBON	4.7K	5%	1/4W	
R462	1-247-847-11	CARBON	4.7K	5%	1/4W	
R463	1-247-843-11	CARBON	3.3K	5%	1/4W	
R464	1-247-843-11	CARBON	3.3K	5%	1/4W	
R465	1-247-831-11	CARBON	1K	5%	1/4W	
R466	1-247-871-11	CARBON	47K	5%	1/4W	
R471	1-247-871-11	CARBON	47K	5%	1/4W	
R472	1-247-863-11	CARBON	22K	5%	1/4W	
R473	1-247-863-11	CARBON	22K	5%	1/4W	
R474	1-249-429-11	CARBON	10K	5%	1/4W	
R475	1-247-847-11	CARBON	4.7K	5%	1/4W	
R476	1-247-847-11	CARBON	4.7K	5%	1/4W	
R477	1-247-879-11	CARBON	100K	5%	1/4W	
R478	1-247-879-11	CARBON	100K	5%	1/4W	
R481	1-247-807-31	CARBON	100	5%	1/4W	
R482	1-247-807-31	CARBON	100	5%	1/4W	
R484	1-247-807-31	CARBON	100	5%	1/4W	
R485	1-247-807-31	CARBON	100	5%	1/4W	
R602	1-249-439-11	CARBON	68K	5%	1/4W	
R603	1-249-439-11	CARBON	68K	5%	1/4W	
R604	1-247-831-11	CARBON	1K	5%	1/4W	
R605	1-247-831-11	CARBON	1K	5%	1/4W	
R606	1-247-879-11	CARBON	100K	5%	1/4W	
R652	1-249-439-11	CARBON	68K	5%	1/4W	
R653	1-249-439-11	CARBON	68K	5%	1/4W	
R654	1-247-831-11	CARBON	1K	5%	1/4W	
R655	1-247-831-11	CARBON	1K	5%	1/4W	
R656	1-247-879-11	CARBON	100K	5%	1/4W	
R697	1-247-879-11	CARBON	100K	5%	1/4W	
R701	1-249-421-11	CARBON	2.2K	5%	1/4W	
R702	1-249-440-11	CARBON	82K	5%	1/4W	
R703	1-249-414-11	CARBON	560	5%	1/4W	
R704	1-249-402-11	CARBON	56	5%	1/4W	F
R705	1-249-402-11	CARBON	56	5%	1/4W	F
R706	1-234-182-11	ENCAPSULATED COMPONENT	0.22X2		5W	
R707	1-247-847-11	CARBON	4.7K	5%	1/4W	
R708	1-240-855-81	CARBON	6.2K	5%	1/4W	F
R709	1-249-419-11	CARBON	1.5K	5%	1/4W	
R710	1-247-881-00	CARBON	120K	5%	1/4W	
R711	1-249-431-11	CARBON	15K	5%	1/4W	
R712	1-249-393-11	CARBON	10	5%	1/4W	F
R713	1-247-871-11	CARBON	47K	5%	1/4W	
R714	1-249-389-11	CARBON	4.7	5%	1/4W	F
R751	1-249-421-11	CARBON	2.2K	5%	1/4W	
R752	1-249-440-11	CARBON	82K	5%	1/4W	
R753	1-249-414-11	CARBON	560	5%	1/4W	

MAIN **POWER**

Ref. No.	Part No.	Description			Remark
R754	1-249-402-11	CARBON	56	5%	1/4W F
R755	1-249-402-11	CARBON	56	5%	1/4W F
R756	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2			5W
R757	1-247-847-11	CARBON	4.7K	5%	1/4W
R758	1-240-855-81	CARBON	6.2K	5%	1/4W F
R759	1-249-419-11	CARBON	1.5K	5%	1/4W
R760	1-247-881-00	CARBON	120K	5%	1/4W
R761	1-249-431-11	CARBON	15K	5%	1/4W
R762	1-249-393-11	CARBON	10	5%	1/4W F
R763	1-247-871-11	CARBON	47K	5%	1/4W
R764	1-249-389-11	CARBON	4.7	5%	1/4W F
R781	1-247-847-11	CARBON	4.7K	5%	1/4W
R782	1-247-847-11	CARBON	4.7K	5%	1/4W
R783	1-247-847-11	CARBON	4.7K	5%	1/4W
R784	1-249-404-00	CARBON	82	5%	1/4W F
R785	1-249-404-00	CARBON	82	5%	1/4W F
R786	1-247-847-11	CARBON	4.7K	5%	1/4W
R787	1-247-847-11	CARBON	4.7K	5%	1/4W
R788	1-249-427-11	CARBON	6.8K	5%	1/4W
R789	1-247-871-11	CARBON	47K	5%	1/4W
R790	1-247-831-11	CARBON	1K	5%	1/4W
R791	1-247-871-11	CARBON	47K	5%	1/4W
⚠R792	1-215-891-11	METAL OXIDE	680	5%	2W F
⚠R793	1-215-891-11	METAL OXIDE	680	5%	2W F
R794	1-249-429-11	CARBON	10K	5%	1/4W
R795	1-249-404-00	CARBON	82	5%	1/4W F
R901	1-247-847-11	CARBON	4.7K	5%	1/4W
R902	1-249-381-11	CARBON	1	5%	1/4W F
⚠R903	1-219-237-11	SOLID	3.3M	20%	1/2W F (US,CND)
R904	1-249-435-11	CARBON	33K	5%	1/4W
R905	1-247-863-11	CARBON	22K	5%	1/4W
R906	1-249-421-11	CARBON	2.2K	5%	1/4W
R907	1-249-428-11	CARBON	8.2K	5%	1/4W
R908	1-249-422-11	CARBON	2.7K	5%	1/4W
R909	1-249-431-11	CARBON	15K	5%	1/4W
R910	1-249-429-11	CARBON	10K	5%	1/4W
R911	1-247-843-11	CARBON	3.3K	5%	1/4W
R912	1-247-831-11	CARBON	1K	5%	1/4W
R913	1-249-404-00	CARBON	82	5%	1/4W F
R914	1-247-847-11	CARBON	4.7K	5%	1/4W
⚠R915	1-240-877-11	FUSIBLE	0.15	5%	1/2W F
R916	1-249-389-11	CARBON	4.7	5%	1/4W F
R917	1-249-429-11	CARBON	10K	5%	1/4W
R918	1-247-831-11	CARBON	1K	5%	1/4W
R919	1-247-871-11	CARBON	47K	5%	1/4W
R920	1-247-871-11	CARBON	47K	5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W
R926	1-247-791-11	CARBON	22	5%	1/4W
R929	1-249-401-11	CARBON	47	5%	1/4W F
R930	1-249-401-11	CARBON	47	5%	1/4W F
R941	1-249-409-11	CARBON	220	5%	1/4W (AEP)
R942	1-249-429-11	CARBON	10K	5%	1/4W (AEP)
R943	1-249-419-11	CARBON	1.5K	5%	1/4W (AEP)
R944	1-247-863-11	CARBON	22K	5%	1/4W (AEP)

Ref. No.	Part No.	Description			Remark
R945	1-249-429-11	CARBON	10K	5%	1/4W (AEP)
R946	1-249-429-11	CARBON	10K	5%	1/4W (AEP)
R947	1-249-429-11	CARBON	10K	5%	1/4W (AEP)
RR701	1-249-393-11	CARBON	10	5%	1/4W F (AEP)
RR702	1-249-393-11	CARBON	10	5%	1/4W F (AEP)
RR751	1-249-393-11	CARBON	10	5%	1/4W F (AEP)
RR752	1-249-393-11	CARBON	10	5%	1/4W F (AEP)
		< RELAY >			
RY781	1-755-416-12	RELAY			
RY782	1-755-416-12	RELAY			
RY783	1-755-416-12	RELAY			
RY981	1-755-013-11	RELAY			
⚠RY982	1-755-276-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T902	1-435-281-11	TRANSFORMER, POWER (US,CND)			
⚠T902	1-435-282-11	TRANSFORMER, POWER (AEP)			
		< TERMINAL BOARD >			
TM801	1-537-376-11	TERMINAL BOARD (8P) (SPEAKERS)			

****

POWER BOARD
****

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CNP201	1-779-977-11	PIN, CONNECTOR 6P			
		< DIODE >			
D205	8-719-061-96	LED SLR-325DCT31 (SPEAKER A)			
D206	8-719-061-96	LED SLR-325DCT31 (SPEAKER B)			
		< TRANSISTOR >			
Q204	8-729-029-86	TRANSISTOR DTC124ESA			
Q205	8-729-029-86	TRANSISTOR DTC124ESA			
		< RESISTOR >			
R289	1-249-413-11	CARBON	470	5%	1/4W
R290	1-249-413-11	CARBON	470	5%	1/4W
R297	1-247-831-11	CARBON	1K	5%	1/4W
		< SWITCH >			
S201	1-771-410-21	SWITCH, TACTILE (I/⏻)			
S202	1-771-410-21	SWITCH, TACTILE (SPEAKER A)			
S203	1-771-410-21	SWITCH, TACTILE (SPEAKER B)			

****

Ref. No.	Part No.	Description			Remark
		VOLUME BOARD			
		**************			
		< CONNECTOR >			
CN202	1-750-195-11	CONNECTOR, BOARD TO BOARD 6P			
		< RESISTOR >			
R265	1-247-831-11	CARBON	1K	5%	1/4W
R266	1-249-421-11	CARBON	2.2K	5%	1/4W
R267	1-249-421-11	CARBON	2.2K	5%	1/4W
R268	1-247-847-11	CARBON	4.7K	5%	1/4W
R269	1-249-429-11	CARBON	10K	5%	1/4W
R270	1-247-863-11	CARBON	22K	5%	1/4W
		< ROTARY ENCODER >			
RV201	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
		< SWITCH >			
S224	1-771-410-21	SWITCH, TACTILE (BALANCE R)			
S225	1-771-410-21	SWITCH, TACTILE (TREBLE +)			
S226	1-771-410-21	SWITCH, TACTILE (BASS +)			
S227	1-771-410-21	SWITCH, TACTILE (BALANCE L)			
S228	1-771-410-21	SWITCH, TACTILE (TREBLE –)			
S229	1-771-410-21	SWITCH, TACTILE (BASS –)			

MEMO

STR-DE197

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model

Ver. 1.4 2007. 03

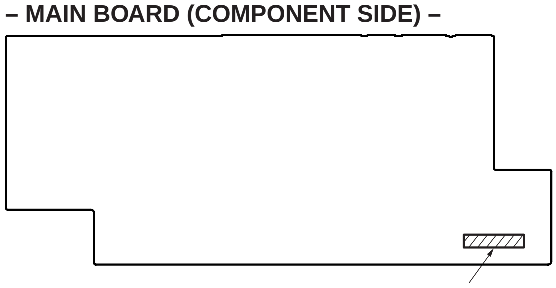
SUPPLEMENT-2

File this supplement with the service manual.

Subject: MAIN and DISPLAY boards change of US model.

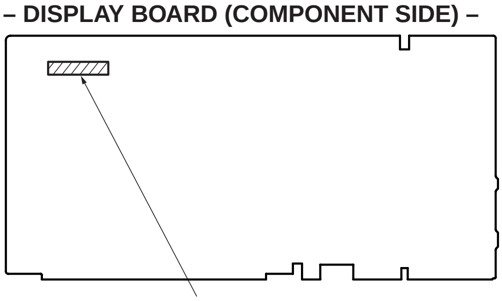
Printed wiring board and schematic diagram of new type, and changed parts list are described in this Supplement-2.
When performing service and inspection, check the part number of the MAIN and DISPLAY boards.

DISCRIMINATION
– MAIN BOARD (COMPONENT SIDE) –



MAIN BOARD Part No.
1-861-592-1□ : Service Manual
1-871-790-1□ :Supplement-1
1-861-592-2□ :Supplement-2

– DISPLAY BOARD (COMPONENT SIDE) –



DISPLAY BOARD Part No.
1-861-586-1□ : Service Manual
1-871-791-1□ :Supplement-1
1-861-586-2□ :Supplement-2

9-877-864-82

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1. Printed Wiring Boards –Main Section– 4
2. Schematic Diagram –Main Section (1/2)– 5
3. Schematic Diagram –Main Section (2/2)– 6
4. Printed Wiring Boards –Panel Section– 7
5. Schematic Diagram –Panel Section– 8
6. Electrical Parts List 9

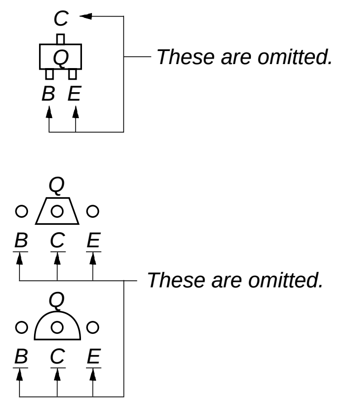
THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

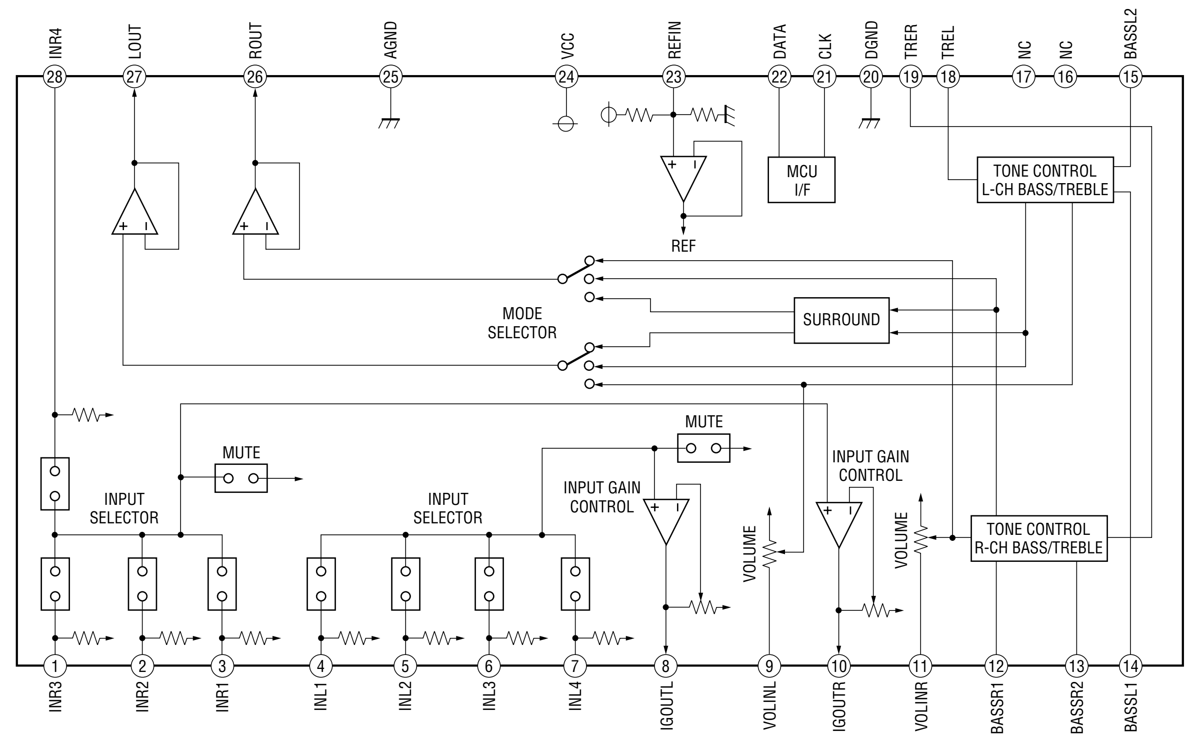
- : B+ Line.
- : B– Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (FM/AM)
  - : VIDEO (AUDIO)
  - : CD (ANALOG)
- (( )): Page of Supplement-2.

for printed wiring boards:
- : parts extracted from the component side.
- △ : internal component.
- : Pattern from the side which enables seeing.
- (( )): Page of Supplement-2.



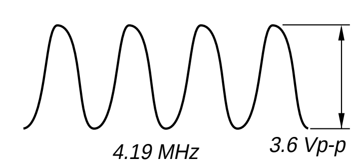
• IC Block Diagram

IC402 R2S15904SP



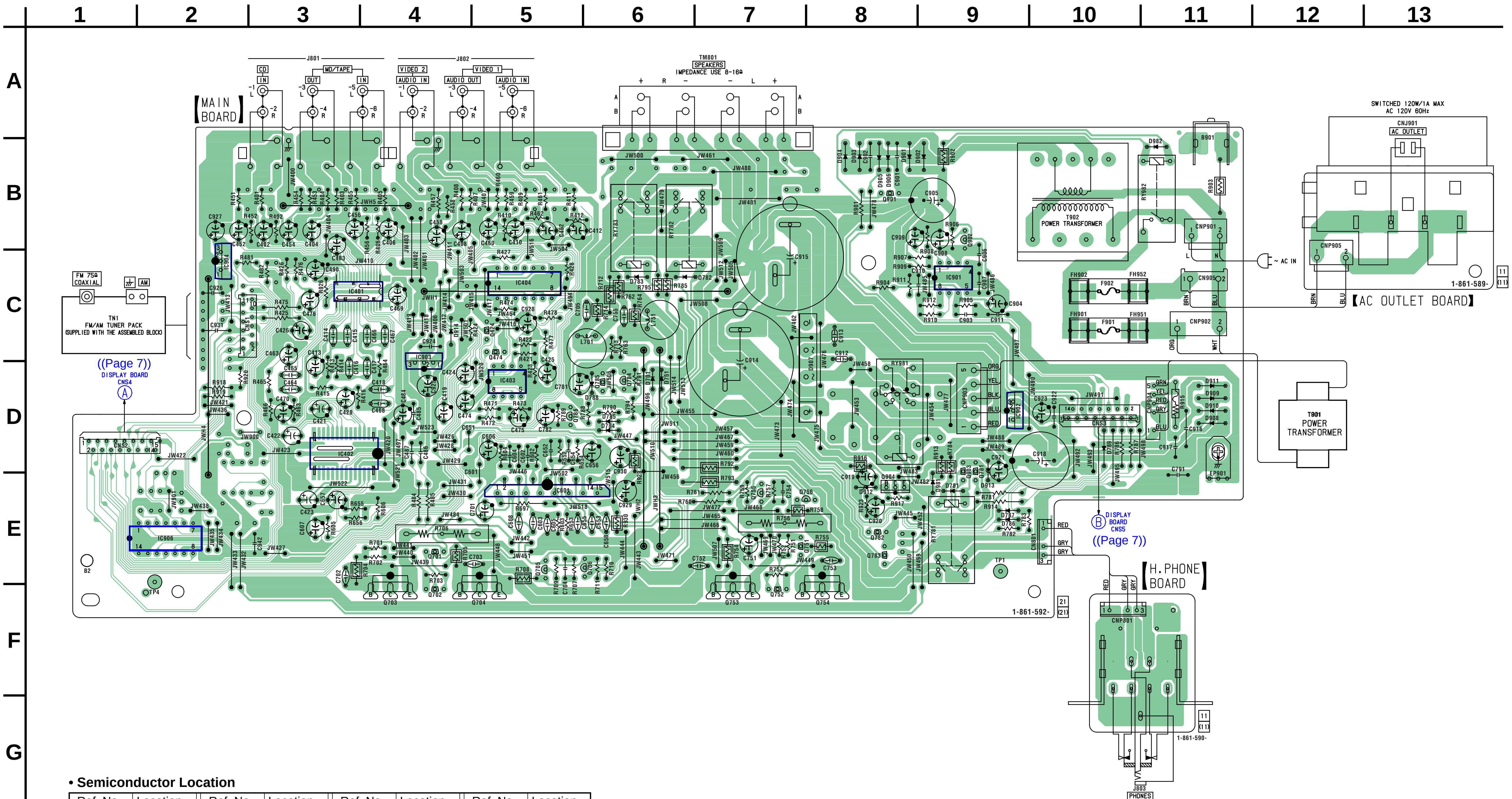
• Waveform

① IC201 ㉟ (X2)



2 V/DIV, 0.2 µsec/DIV

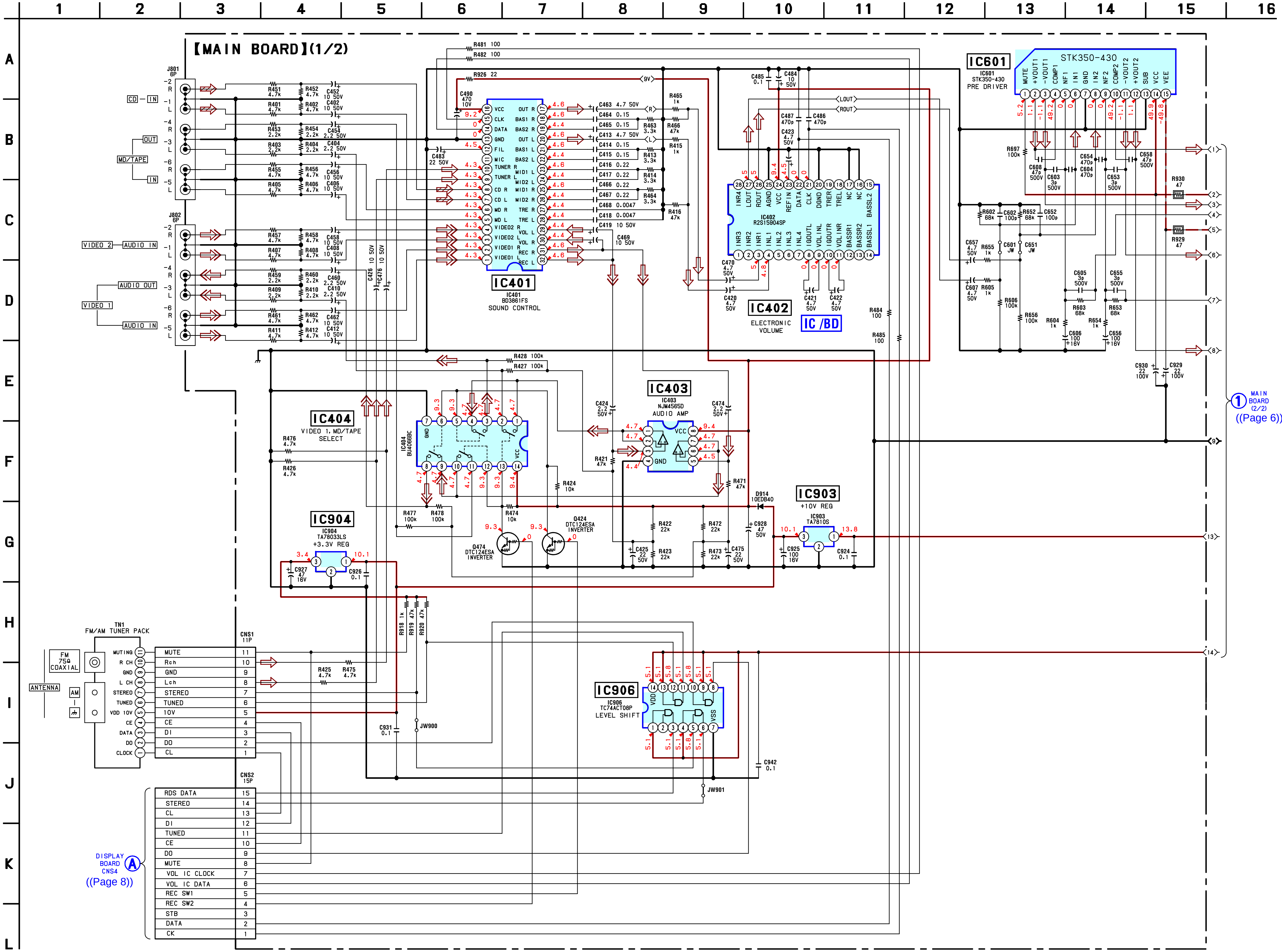
1. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 13 of Service Manual for Circuit Boards Location. LF : Uses unleaded solder.



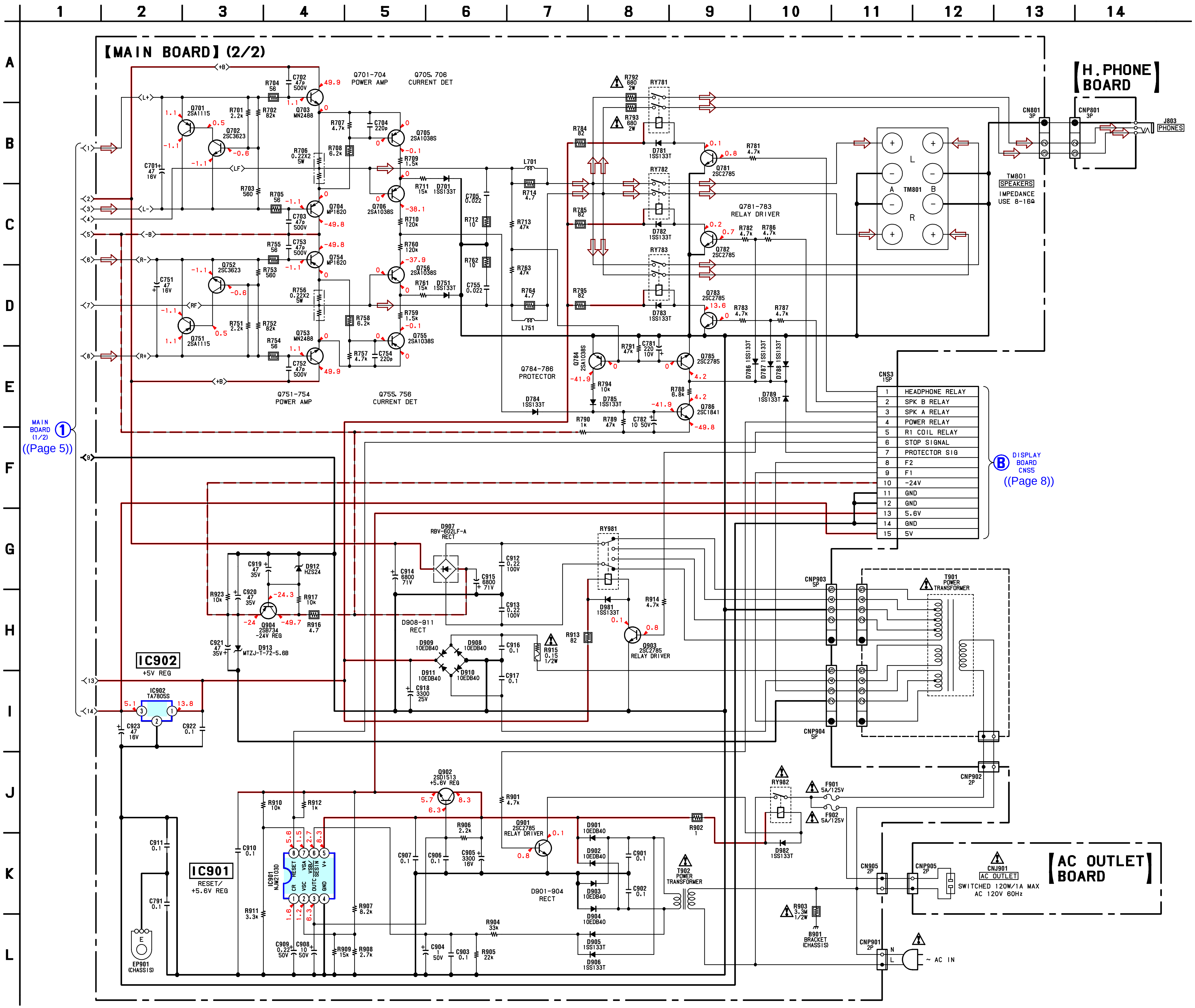
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D701	D-6	D906	B-8	IC601	E-5	Q752	F-7
D751	D-6	D907	D-7	IC901	C-9	Q753	F-7
D781	E-9	D908	D-11	IC902	D-9	Q754	F-8
D782	C-6	D909	D-11	IC903	C-4	Q755	E-7
D783	C-6	D910	D-11	IC904	C-2	Q756	E-7
D784	D-6	D911	D-11	IC906	E-2	Q781	D-9
D785	D-6	D912	E-8			Q782	E-8
D786	E-9	D913	E-9	Q424	C-5	Q783	E-8
D787	E-9	D914	C-4	Q474	C-5	Q784	D-6
D788	D-6	D981	E-9	Q701	E-4	Q785	D-6
D789	D-10	D982	B-11	Q702	F-4	Q786	D-5
D901	B-8			Q703	F-4	Q901	B-8
D902	B-9	IC401	C-3	Q704	F-5	Q902	B-9
D903	B-8	IC402	D-3	Q705	E-5	Q903	D-9
D904	B-8	IC403	D-5	Q706	E-6	Q904	E-8
D905	B-8	IC404	C-5	Q751	E-7		

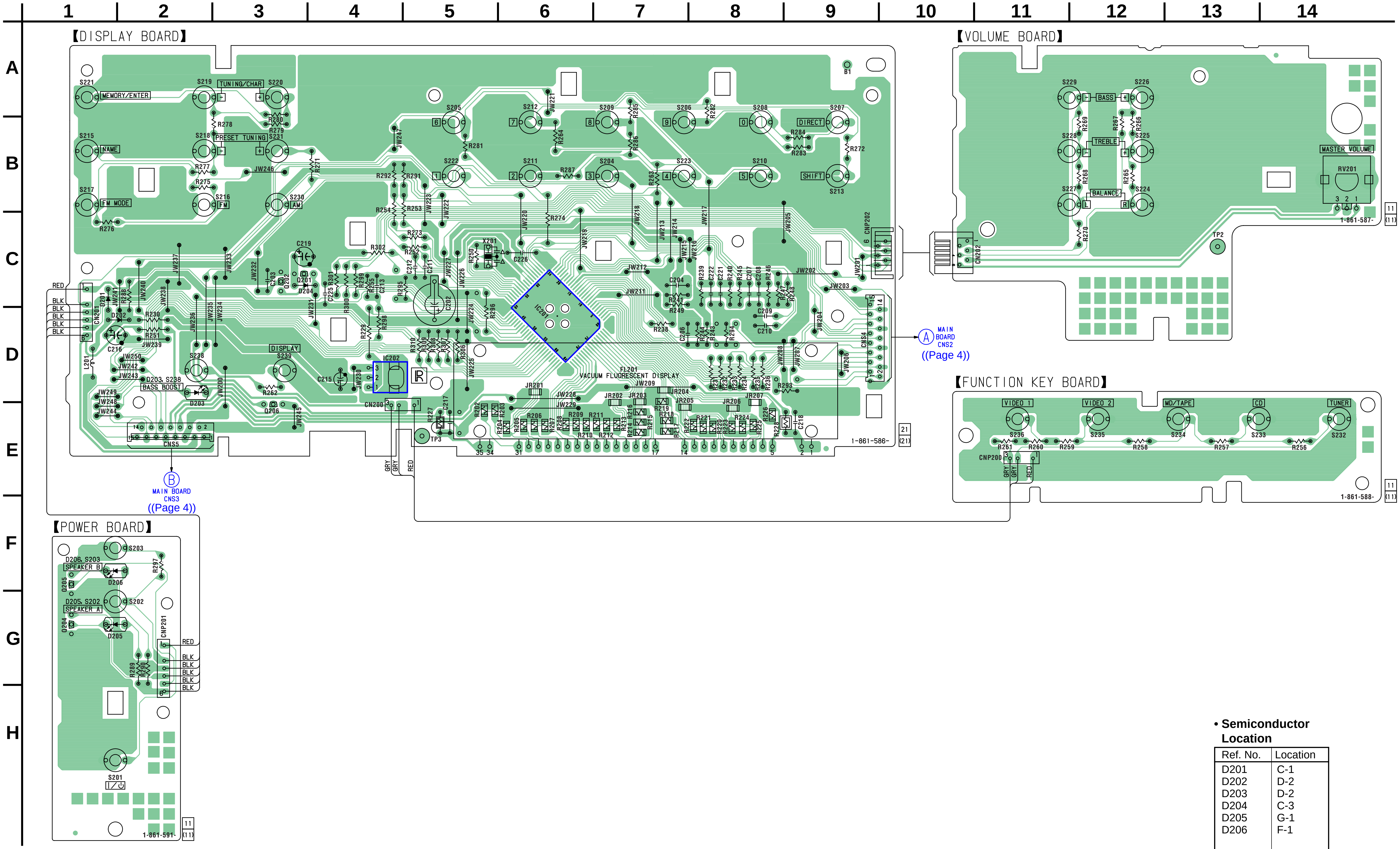
2. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 3 of Supplement-2 for IC Block Diagram.



3. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) —



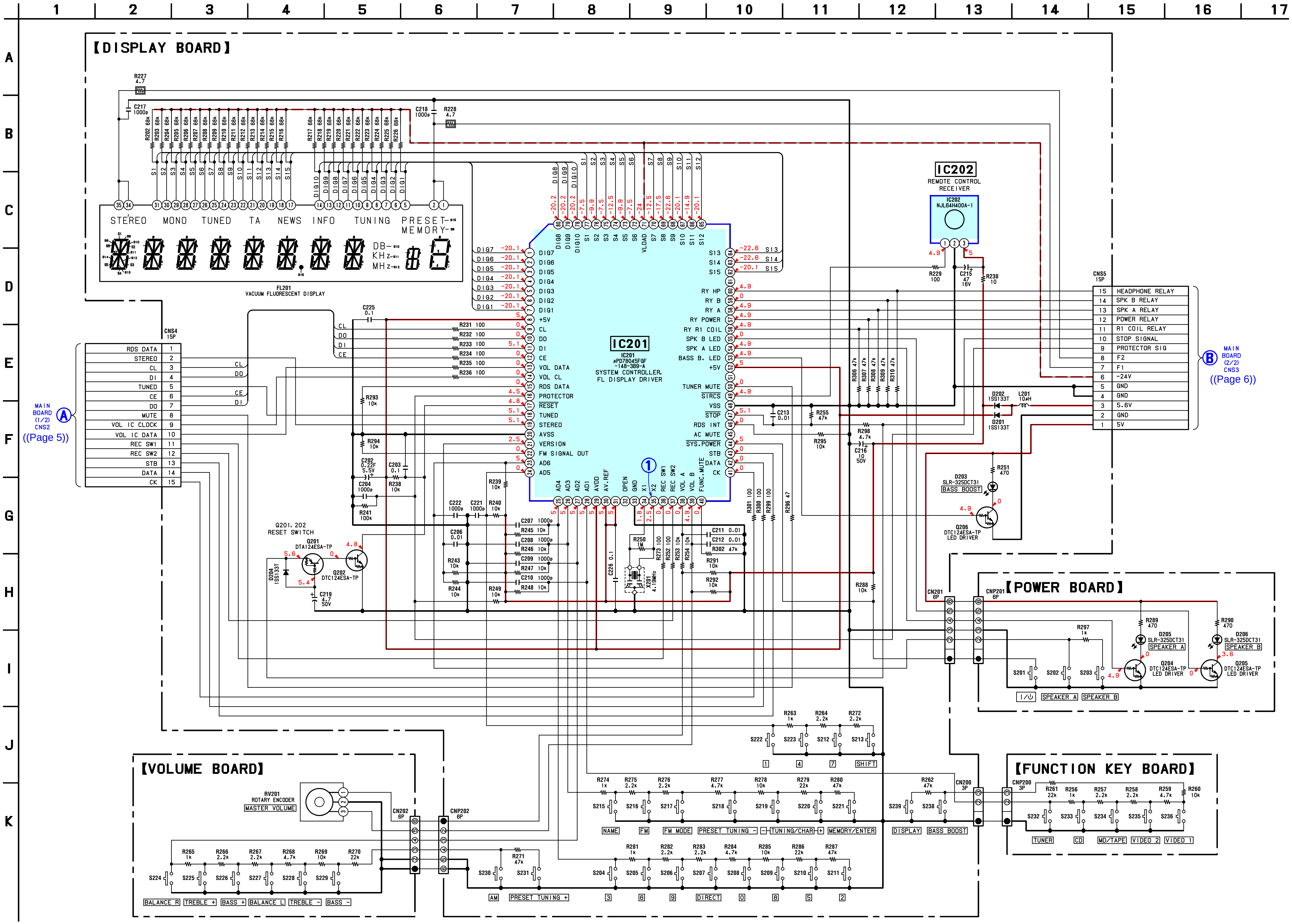
4. PRINTED WIRING BOARDS — PANEL SECTION — • Refer to page 13 of Service Manual for Circuit Boards Location. : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D201	C-1
D202	D-2
D203	D-2
D204	C-3
D205	G-1
D206	F-1
IC201	D-6
IC202	D-4
Q201	C-3
Q202	C-3
Q204	G-1
Q205	F-1
Q206	E-3

5. SCHEMATIC DIAGRAM — PANEL SECTION — • Refer to page 3 of Supplement-2 for Waveform.



6. ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
	A-1242-213-A	DISPLAY BOARD, COMPLETE				
		************************				
*	4-921-941-01	CUSHION (FL)				
*	4-943-107-11	HOLDER (FL TUBE)				
		< CAPACITOR >				
C202	1-104-905-11	DOUBLE LAYERS	0.22F			5.5V
C203	1-164-159-11	CERAMIC	0.1uF			50V
C204	1-128-821-11	CERAMIC	0.001uF	5%		50V
C206	1-127-876-11	CERAMIC	0.01uF	10%		50V
C207	1-128-821-11	CERAMIC	0.001uF	5%		50V
C208	1-128-821-11	CERAMIC	0.001uF	5%		50V
C209	1-128-821-11	CERAMIC	0.001uF	5%		50V
C210	1-128-821-11	CERAMIC	0.001uF	5%		50V
C211	1-127-876-11	CERAMIC	0.01uF	10%		50V
C212	1-127-876-11	CERAMIC	0.01uF	10%		50V
C213	1-127-876-11	CERAMIC	0.01uF	10%		50V
C215	1-126-947-11	ELECT	47uF	20%		35V
C216	1-126-795-11	ELECT	10uF	20%		50V
C217	1-128-821-11	CERAMIC	0.001uF	5%		50V
C218	1-128-821-11	CERAMIC	0.001uF	5%		50V
C219	1-126-794-11	ELECT	4.7uF	20%		50V
C221	1-128-821-11	CERAMIC	0.001uF	5%		50V
C222	1-128-821-11	CERAMIC	0.001uF	5%		50V
C225	1-164-159-11	CERAMIC	0.1uF			50V
C226	1-164-159-11	CERAMIC	0.1uF			50V
		< CONNECTOR >				
CNP202	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P				
CNS4	1-784-776-11	CONNECTOR, FFC 15P				
CNS5	1-784-776-11	CONNECTOR, FFC 15P				
		< DIODE >				
D201	8-719-991-33	DIODE 1SS133T-77				
D202	8-719-991-33	DIODE 1SS133T-77				
D203	8-719-061-96	LED SLR-325DCT31 (BASS BOOST)				
D204	8-719-991-33	DIODE 1SS133T-77				
		< VACUUM FLUORESCENT DISPLAY >				
FL201	1-518-970-11	VACUUM FLUORESCENT DISPLAY				
		< IC >				
IC201	6-806-993-01	IC uPD78045FGF-148-3B9-A				
IC202	8-759-827-70	IC NJL64H400A-1 (IR)				
		< JUMPER RESISTOR >				
JR201	1-216-296-11	SHORT CHIP	0			
JR202	1-216-296-11	SHORT CHIP	0			
JR203	1-216-296-11	SHORT CHIP	0			
JR204	1-216-296-11	SHORT CHIP	0			
JR205	1-216-296-11	SHORT CHIP	0			
JR206	1-216-296-11	SHORT CHIP	0			
JR207	1-216-296-11	SHORT CHIP	0			
		< COIL >				
L201	1-410-509-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q201	8-729-029-40	TRANSISTOR	DTA124ESA			
Q202	8-729-029-86	TRANSISTOR	DTC124ESA			
Q206	8-729-029-86	TRANSISTOR	DTC124ESA			
		< RESISTOR >				
R202	1-216-242-00	RES-CHIP	68K	5%		1/8W
R203	1-216-242-00	RES-CHIP	68K	5%		1/8W
R204	1-216-242-00	RES-CHIP	68K	5%		1/8W
R205	1-216-242-00	RES-CHIP	68K	5%		1/8W
R206	1-216-242-00	RES-CHIP	68K	5%		1/8W
R207	1-216-242-00	RES-CHIP	68K	5%		1/8W
R208	1-216-242-00	RES-CHIP	68K	5%		1/8W
R209	1-216-242-00	RES-CHIP	68K	5%		1/8W
R210	1-216-242-00	RES-CHIP	68K	5%		1/8W
R211	1-216-242-00	RES-CHIP	68K	5%		1/8W
R212	1-216-242-00	RES-CHIP	68K	5%		1/8W
R213	1-216-242-00	RES-CHIP	68K	5%		1/8W
R214	1-216-242-00	RES-CHIP	68K	5%		1/8W
R215	1-216-242-00	RES-CHIP	68K	5%		1/8W
R216	1-216-242-00	RES-CHIP	68K	5%		1/8W
R217	1-216-242-00	RES-CHIP	68K	5%		1/8W
R218	1-216-242-00	RES-CHIP	68K	5%		1/8W
R219	1-216-242-00	RES-CHIP	68K	5%		1/8W
R220	1-216-242-00	RES-CHIP	68K	5%		1/8W
R221	1-216-242-00	RES-CHIP	68K	5%		1/8W
R222	1-216-242-00	RES-CHIP	68K	5%		1/8W
R223	1-216-242-00	RES-CHIP	68K	5%		1/8W
R224	1-216-242-00	RES-CHIP	68K	5%		1/8W
R225	1-216-242-00	RES-CHIP	68K	5%		1/8W
R226	1-216-242-00	RES-CHIP	68K	5%		1/8W

DISPLAY **MAIN**

Ref. No.	Part No.	Description			Remark	
R227	1-249-389-11	CARBON	4.7	5%	1/4W	F
R228	1-249-389-11	CARBON	4.7	5%	1/4W	F
R229	1-247-807-31	CARBON	100	5%	1/4W	
R230	1-249-393-11	CARBON	10	5%	1/4W	F
R231	1-247-807-31	CARBON	100	5%	1/4W	
R232	1-247-807-31	CARBON	100	5%	1/4W	
R233	1-247-807-31	CARBON	100	5%	1/4W	
R234	1-247-807-31	CARBON	100	5%	1/4W	
R235	1-247-807-31	CARBON	100	5%	1/4W	
R236	1-247-807-31	CARBON	100	5%	1/4W	
R238	1-249-429-11	CARBON	10K	5%	1/4W	
R239	1-249-429-11	CARBON	10K	5%	1/4W	
R240	1-249-429-11	CARBON	10K	5%	1/4W	
R241	1-247-879-11	CARBON	100K	5%	1/4W	
R243	1-249-429-11	CARBON	10K	5%	1/4W	
R244	1-249-429-11	CARBON	10K	5%	1/4W	
R245	1-249-429-11	CARBON	10K	5%	1/4W	
R246	1-249-429-11	CARBON	10K	5%	1/4W	
R247	1-249-429-11	CARBON	10K	5%	1/4W	
R248	1-249-429-11	CARBON	10K	5%	1/4W	
R249	1-249-429-11	CARBON	10K	5%	1/4W	
R250	1-247-903-00	CARBON	1M	5%	1/4W	
R251	1-249-413-11	CARBON	470	5%	1/4W	
R252	1-247-807-31	CARBON	100	5%	1/4W	
R253	1-249-429-11	CARBON	10K	5%	1/4W	
R254	1-249-429-11	CARBON	10K	5%	1/4W	
R255	1-247-871-11	CARBON	47K	5%	1/4W	
R262	1-247-871-11	CARBON	47K	5%	1/4W	
R263	1-247-831-11	CARBON	1K	5%	1/4W	
R264	1-249-421-11	CARBON	2.2K	5%	1/4W	
R271	1-247-871-11	CARBON	47K	5%	1/4W	
R272	1-249-421-11	CARBON	2.2K	5%	1/4W	
R273	1-247-807-31	CARBON	100	5%	1/4W	
R274	1-247-831-11	CARBON	1K	5%	1/4W	
R275	1-249-421-11	CARBON	2.2K	5%	1/4W	
R276	1-249-421-11	CARBON	2.2K	5%	1/4W	
R277	1-247-847-11	CARBON	4.7K	5%	1/4W	
R278	1-249-429-11	CARBON	10K	5%	1/4W	
R279	1-247-863-11	CARBON	22K	5%	1/4W	
R280	1-247-871-11	CARBON	47K	5%	1/4W	
R281	1-247-831-11	CARBON	1K	5%	1/4W	
R282	1-249-421-11	CARBON	2.2K	5%	1/4W	
R283	1-249-421-11	CARBON	2.2K	5%	1/4W	
R284	1-247-847-11	CARBON	4.7K	5%	1/4W	
R285	1-249-429-11	CARBON	10K	5%	1/4W	
R286	1-247-863-11	CARBON	22K	5%	1/4W	
R287	1-247-871-11	CARBON	47K	5%	1/4W	
R288	1-249-429-11	CARBON	10K	5%	1/4W	
R291	1-249-429-11	CARBON	10K	5%	1/4W	
R292	1-249-429-11	CARBON	10K	5%	1/4W	
R293	1-249-429-11	CARBON	10K	5%	1/4W	
R294	1-249-429-11	CARBON	10K	5%	1/4W	
R295	1-249-429-11	CARBON	10K	5%	1/4W	
R296	1-249-401-11	CARBON	47	5%	1/4W	
R298	1-247-847-11	CARBON	4.7K	5%	1/4W	
R299	1-247-807-31	CARBON	100	5%	1/4W	
R300	1-247-807-31	CARBON	100	5%	1/4W	
R301	1-247-807-31	CARBON	100	5%	1/4W	

Ref. No.	Part No.	Description			Remark
R302	1-247-871-11	CARBON	47K	5%	1/4W
R306	1-247-871-11	CARBON	47K	5%	1/4W
R307	1-247-871-11	CARBON	47K	5%	1/4W
R308	1-247-871-11	CARBON	47K	5%	1/4W
R309	1-247-871-11	CARBON	47K	5%	1/4W
R310	1-247-871-11	CARBON	47K	5%	1/4W
		< SWITCH >			
S204	1-771-410-21	SWITCH, TACTILE (3)			
S205	1-771-410-21	SWITCH, TACTILE (6)			
S206	1-771-410-21	SWITCH, TACTILE (9)			
S207	1-771-410-21	SWITCH, TACTILE (DIRECT)			
S208	1-771-410-21	SWITCH, TACTILE (0)			
S209	1-771-410-21	SWITCH, TACTILE (8)			
S210	1-771-410-21	SWITCH, TACTILE (5)			
S211	1-771-410-21	SWITCH, TACTILE (2)			
S212	1-771-410-21	SWITCH, TACTILE (7)			
S213	1-771-410-21	SWITCH, TACTILE (SHIFT)			
S215	1-771-410-21	SWITCH, TACTILE (NAME)			
S216	1-771-410-21	SWITCH, TACTILE (FM)			
S217	1-771-410-21	SWITCH, TACTILE (FM MODE)			
S218	1-771-410-21	SWITCH, TACTILE (PRESET TUNING –)			
S219	1-771-410-21	SWITCH, TACTILE (TUNING/CHAR –)			
S220	1-771-410-21	SWITCH, TACTILE (TUNING/CHAR +)			
S221	1-771-410-21	SWITCH, TACTILE (MEMORY/ENTER)			
S222	1-771-410-21	SWITCH, TACTILE (1)			
S223	1-771-410-21	SWITCH, TACTILE (4)			
S230	1-771-410-21	SWITCH, TACTILE (AM)			
S231	1-771-410-21	SWITCH, TACTILE (PRESET TUNING +)			
S238	1-771-410-21	SWITCH, TACTILE (BASS BOOST)			
S239	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
		< VIBRATOR >			
X201	1-795-736-21	VIBRATOR, CERAMIC (4.19MHz)			

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Ref. No.	Part No.	Description			Remark
	A-1242-216-A	MAIN BOARD, COMPLETE **********************			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C402	1-126-964-11	ELECT	10uF	20%	50V
C404	1-126-961-11	ELECT	2.2uF	20%	50V
C406	1-126-964-11	ELECT	10uF	20%	50V
C408	1-126-964-11	ELECT	10uF	20%	50V
C410	1-126-961-11	ELECT	2.2uF	20%	50V
C412	1-126-964-11	ELECT	10uF	20%	50V
C413	1-126-963-11	ELECT	4.7uF	20%	50V
C414	1-136-167-00	FILM	0.15uF	5%	50V
C415	1-136-167-00	FILM	0.15uF	5%	50V
C416	1-137-190-11	FILM	0.22uF	5%	50V
C417	1-137-190-11	FILM	0.22uF	5%	50V
C418	1-136-287-11	FILM	0.0047uF	5%	100V
C419	1-126-964-11	ELECT	10uF	20%	50V
C420	1-126-963-11	ELECT	4.7uF	20%	50V
C421	1-126-963-11	ELECT	4.7uF	20%	50V
C422	1-126-963-11	ELECT	4.7uF	20%	50V

Ref. No.	Part No.	Description			Remark
C423	1-126-963-11	ELECT	4.7uF	20%	50V
C424	1-126-961-11	ELECT	2.2uF	20%	50V
C425	1-126-965-11	ELECT	22uF	20%	50V
C426	1-126-964-11	ELECT	10uF	20%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V
C454	1-126-961-11	ELECT	2.2uF	20%	50V
C456	1-126-964-11	ELECT	10uF	20%	50V
C458	1-126-964-11	ELECT	10uF	20%	50V
C460	1-126-961-11	ELECT	2.2uF	20%	50V
C462	1-126-964-11	ELECT	10uF	20%	50V
C463	1-126-963-11	ELECT	4.7uF	20%	50V
C464	1-136-167-00	FILM	0.15uF	5%	50V
C465	1-136-167-00	FILM	0.15uF	5%	50V
C466	1-137-190-11	FILM	0.22uF	5%	50V
C467	1-137-190-11	FILM	0.22uF	5%	50V
C468	1-136-287-11	FILM	0.0047uF	5%	100V
C469	1-126-964-11	ELECT	10uF	20%	50V
C470	1-126-963-11	ELECT	4.7uF	20%	50V
C474	1-126-961-11	ELECT	2.2uF	20%	50V
C475	1-126-965-11	ELECT	22uF	20%	50V
C476	1-126-964-11	ELECT	10uF	20%	50V
C483	1-126-965-11	ELECT	22uF	20%	50V
C484	1-126-964-11	ELECT	10uF	20%	50V
C485	1-164-159-11	CERAMIC	0.1uF		50V
C486	1-128-817-11	CERAMIC	470PF	5%	50V
C487	1-128-817-11	CERAMIC	470PF	5%	50V
C490	1-126-925-11	ELECT	470uF	20%	10V
C602	1-128-809-11	CERAMIC	100PF	5%	50V
C603	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C604	1-128-817-11	CERAMIC	470PF	5%	50V
C605	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C606	1-126-933-11	ELECT	100uF	20%	16V
C607	1-126-963-11	ELECT	4.7uF	20%	50V
C608	1-162-815-11	CERAMIC	47PF	5%	500V
C652	1-128-809-11	CERAMIC	100PF	5%	50V
C653	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C654	1-128-817-11	CERAMIC	470PF	5%	50V
C655	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C656	1-126-933-11	ELECT	100uF	20%	16V
C657	1-126-963-11	ELECT	4.7uF	20%	50V
C658	1-162-815-11	CERAMIC	47PF	5%	500V
C701	1-126-947-11	ELECT	47uF	20%	35V
C702	1-162-815-11	CERAMIC	47PF	5%	500V
C703	1-162-815-11	CERAMIC	47PF	5%	500V
C704	1-128-813-11	CERAMIC	220PF	5%	50V
C705	1-137-372-11	MYLAR	0.022uF	5%	50V
C751	1-126-947-11	ELECT	47uF	20%	35V
C752	1-162-815-11	CERAMIC	47PF	5%	500V
C753	1-162-815-11	CERAMIC	47PF	5%	500V
C754	1-128-813-11	CERAMIC	220PF	5%	50V
C755	1-137-372-11	MYLAR	0.022uF	5%	50V
C781	1-126-923-11	ELECT	220uF	20%	10V
C782	1-126-964-11	ELECT	10uF	20%	50V
C791	1-164-159-11	CERAMIC	0.1uF		50V
C901	1-164-159-11	CERAMIC	0.1uF		50V
C902	1-164-159-11	CERAMIC	0.1uF		50V
C903	1-164-159-11	CERAMIC	0.1uF		50V
C904	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remark
C905	1-126-936-11	ELECT	3300uF	20%	16V
C906	1-164-159-11	CERAMIC	0.1uF		50V
C907	1-164-159-11	CERAMIC	0.1uF		50V
C908	1-126-964-11	ELECT	10uF	20%	50V
C909	1-126-957-11	ELECT	0.22uF	20%	50V
C910	1-164-159-11	CERAMIC	0.1uF		50V
C911	1-164-159-11	CERAMIC	0.1uF		50V
C912	1-135-851-21	MYLAR	0.22uF		100V
C913	1-135-851-21	MYLAR	0.22uF		100V
C914	1-165-946-11	ELECT	6800uF	20%	71V
C915	1-165-946-11	ELECT	6800uF	20%	71V
C916	1-164-159-11	CERAMIC	0.1uF		50V
C917	1-164-159-11	CERAMIC	0.1uF		50V
C918	1-126-944-11	ELECT	3300uF	20%	25V
C919	1-126-947-11	ELECT	47uF	20%	35V
C920	1-126-947-11	ELECT	47uF	20%	35V
C921	1-126-947-11	ELECT	47uF	20%	35V
C922	1-127-888-11	CERAMIC	0.1uF	10%	50V
C923	1-126-947-11	ELECT	47uF	20%	35V
C924	1-127-888-11	CERAMIC	0.1uF	10%	50V
C925	1-126-933-11	ELECT	100uF	20%	16V
C926	1-127-888-11	CERAMIC	0.1uF	10%	50V
C927	1-126-947-11	ELECT	47uF	20%	35V
C928	1-126-967-11	ELECT	47uF	20%	50V
C929	1-128-560-11	ELECT	22uF	20%	100V
C930	1-128-560-11	ELECT	22uF	20%	100V
C931	1-164-159-11	CERAMIC	0.1uF		50V
C942	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP902	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP903	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P			
CNP904	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CNS1	1-568-830-11	CONNECTOR, FFC 11P			
CNS2	1-784-776-11	CONNECTOR, FFC 15P			
CNS3	1-784-776-11	CONNECTOR, FFC 15P			
		< DIODE >			
D701	8-719-991-33	DIODE 1SS133T-77			
D751	8-719-991-33	DIODE 1SS133T-77			
D781	8-719-991-33	DIODE 1SS133T-77			
D782	8-719-991-33	DIODE 1SS133T-77			
D783	8-719-991-33	DIODE 1SS133T-77			
D784	8-719-991-33	DIODE 1SS133T-77			
D785	8-719-991-33	DIODE 1SS133T-77			
D786	8-719-991-33	DIODE 1SS133T-77			
D787	8-719-991-33	DIODE 1SS133T-77			
D788	8-719-991-33	DIODE 1SS133T-77			
D789	8-719-991-33	DIODE 1SS133T-77			
D901	6-500-522-11	DIODE 10EDB40-TA2B5			
D902	6-500-522-11	DIODE 10EDB40-TA2B5			
D903	6-500-522-11	DIODE 10EDB40-TA2B5			
D904	6-500-522-11	DIODE 10EDB40-TA2B5			
D905	8-719-991-33	DIODE 1SS133T-77			
D906	8-719-991-33	DIODE 1SS133T-77			
D907	8-719-072-05	DIODE RBV-602LF-A			
D908	6-500-522-11	DIODE 10EDB40-TA2B5			

MAIN

Ref. No.	Part No.	Description			Remark
D909	6-500-522-11	DIODE 10EDB40-TA2B5			
D910	6-500-522-11	DIODE 10EDB40-TA2B5			
D911	6-500-522-11	DIODE 10EDB40-TA2B5			
D912	8-719-986-54	DIODE HZS24-1LTA			
D913	8-719-109-89	DIODE RD5.6ESB2			
D914	6-500-522-11	DIODE 10EDB40-TA2B5			
D981	8-719-991-33	DIODE 1SS133T-77			
D982	8-719-991-33	DIODE 1SS133T-77			
		< EARTH TERMINAL >			
* EP901	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC401	6-700-261-01	IC BD3861FS			
IC402	6-710-289-01	IC R2S15904SP			
IC403	8-759-167-88	IC NJM4565D			
IC404	8-759-932-33	IC BU4066BC			
IC601	6-705-630-01	IC STK350-430			
IC901	8-759-333-83	IC NJM2103D			
IC902	8-759-231-53	IC TA7805S			
IC903	8-759-231-57	IC TA7810S			
IC904	6-702-771-01	IC TA78033LS			
IC906	8-759-243-51	IC TC74ACT08P			
		< JACK >			
J801	1-774-411-11	JACK, PIN 6P (CD IN,MD/TAPE OUT, MD/TAPE IN)			
J802	1-774-411-11	JACK, PIN 6P (VIDEO 2 AUDIO IN, VIDEO 1 AUDIO OUT/AUDIO IN)			
		< COIL >			
L701	1-420-872-52	COIL, AIR-CORE			
L751	1-420-872-52	COIL, AIR-CORE			
		< TRANSISTOR >			
Q424	8-729-029-86	TRANSISTOR DTC124ESA			
Q474	8-729-029-86	TRANSISTOR DTC124ESA			
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q705	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q706	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q755	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q756	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q781	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q782	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q783	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q784	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q785	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q786	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q902	8-729-045-21	TRANSISTOR 2SD1513TP-LK			
Q903	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q904	8-729-140-97	TRANSISTOR 2SB734-34			
		< RESISTOR >			
R401	1-247-847-11	CARBON	4.7K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R402	1-247-847-11	CARBON	4.7K	5%	1/4W
R403	1-249-421-11	CARBON	2.2K	5%	1/4W
R404	1-249-421-11	CARBON	2.2K	5%	1/4W
R405	1-247-847-11	CARBON	4.7K	5%	1/4W
R406	1-247-847-11	CARBON	4.7K	5%	1/4W
R407	1-247-847-11	CARBON	4.7K	5%	1/4W
R408	1-247-847-11	CARBON	4.7K	5%	1/4W
R409	1-249-421-11	CARBON	2.2K	5%	1/4W
R410	1-249-421-11	CARBON	2.2K	5%	1/4W
R411	1-247-847-11	CARBON	4.7K	5%	1/4W
R412	1-247-847-11	CARBON	4.7K	5%	1/4W
R413	1-247-843-11	CARBON	3.3K	5%	1/4W
R414	1-247-843-11	CARBON	3.3K	5%	1/4W
R415	1-247-831-11	CARBON	1K	5%	1/4W
R416	1-247-871-11	CARBON	47K	5%	1/4W
R421	1-247-871-11	CARBON	47K	5%	1/4W
R422	1-247-863-11	CARBON	22K	5%	1/4W
R423	1-247-863-11	CARBON	22K	5%	1/4W
R424	1-249-429-11	CARBON	10K	5%	1/4W
R425	1-247-847-11	CARBON	4.7K	5%	1/4W
R426	1-247-847-11	CARBON	4.7K	5%	1/4W
R427	1-247-879-11	CARBON	100K	5%	1/4W
R428	1-247-879-11	CARBON	100K	5%	1/4W
R451	1-247-847-11	CARBON	4.7K	5%	1/4W
R452	1-247-847-11	CARBON	4.7K	5%	1/4W
R453	1-249-421-11	CARBON	2.2K	5%	1/4W
R454	1-249-421-11	CARBON	2.2K	5%	1/4W
R455	1-247-847-11	CARBON	4.7K	5%	1/4W
R456	1-247-847-11	CARBON	4.7K	5%	1/4W
R457	1-247-847-11	CARBON	4.7K	5%	1/4W
R458	1-247-847-11	CARBON	4.7K	5%	1/4W
R459	1-249-421-11	CARBON	2.2K	5%	1/4W
R460	1-249-421-11	CARBON	2.2K	5%	1/4W
R461	1-247-847-11	CARBON	4.7K	5%	1/4W
R462	1-247-847-11	CARBON	4.7K	5%	1/4W
R463	1-247-843-11	CARBON	3.3K	5%	1/4W
R464	1-247-843-11	CARBON	3.3K	5%	1/4W
R465	1-247-831-11	CARBON	1K	5%	1/4W
R466	1-247-871-11	CARBON	47K	5%	1/4W
R471	1-247-871-11	CARBON	47K	5%	1/4W
R472	1-247-863-11	CARBON	22K	5%	1/4W
R473	1-247-863-11	CARBON	22K	5%	1/4W
R474	1-249-429-11	CARBON	10K	5%	1/4W
R475	1-247-847-11	CARBON	4.7K	5%	1/4W
R476	1-247-847-11	CARBON	4.7K	5%	1/4W
R477	1-247-879-11	CARBON	100K	5%	1/4W
R478	1-247-879-11	CARBON	100K	5%	1/4W
R481	1-247-807-31	CARBON	100	5%	1/4W
R482	1-247-807-31	CARBON	100	5%	1/4W
R484	1-247-807-31	CARBON	100	5%	1/4W
R485	1-247-807-31	CARBON	100	5%	1/4W
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-439-11	CARBON	68K	5%	1/4W
R604	1-247-831-11	CARBON	1K	5%	1/4W
R605	1-247-831-11	CARBON	1K	5%	1/4W
R606	1-247-879-11	CARBON	100K	5%	1/4W
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-439-11	CARBON	68K	5%	1/4W

Ref. No.	Part No.	Description			Remark	
R654	1-247-831-11	CARBON	1K	5%	1/4W	
R655	1-247-831-11	CARBON	1K	5%	1/4W	
R656	1-247-879-11	CARBON	100K	5%	1/4W	
R697	1-247-879-11	CARBON	100K	5%	1/4W	
R701	1-249-421-11	CARBON	2.2K	5%	1/4W	
R702	1-249-440-11	CARBON	82K	5%	1/4W	
R703	1-249-414-11	CARBON	560	5%	1/4W	
R704	1-249-402-11	CARBON	56	5%	1/4W	F
R705	1-249-402-11	CARBON	56	5%	1/4W	F
R706	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W				
R707	1-247-847-11	CARBON	4.7K	5%	1/4W	
R708	1-240-855-81	CARBON	6.2K	5%	1/4W	F
R709	1-249-419-11	CARBON	1.5K	5%	1/4W	
R710	1-247-881-00	CARBON	120K	5%	1/4W	
R711	1-249-431-11	CARBON	15K	5%	1/4W	
R712	1-249-393-11	CARBON	10	5%	1/4W	F
R713	1-247-871-11	CARBON	47K	5%	1/4W	
R714	1-249-389-11	CARBON	4.7	5%	1/4W	F
R751	1-249-421-11	CARBON	2.2K	5%	1/4W	
R752	1-249-440-11	CARBON	82K	5%	1/4W	
R753	1-249-414-11	CARBON	560	5%	1/4W	
R754	1-249-402-11	CARBON	56	5%	1/4W	F
R755	1-249-402-11	CARBON	56	5%	1/4W	F
R756	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W				
R757	1-247-847-11	CARBON	4.7K	5%	1/4W	
R758	1-240-855-81	CARBON	6.2K	5%	1/4W	F
R759	1-249-419-11	CARBON	1.5K	5%	1/4W	
R760	1-247-881-00	CARBON	120K	5%	1/4W	
R761	1-249-431-11	CARBON	15K	5%	1/4W	
R762	1-249-393-11	CARBON	10	5%	1/4W	F
R763	1-247-871-11	CARBON	47K	5%	1/4W	
R764	1-249-389-11	CARBON	4.7	5%	1/4W	F
R781	1-247-847-11	CARBON	4.7K	5%	1/4W	
R782	1-247-847-11	CARBON	4.7K	5%	1/4W	
R783	1-247-847-11	CARBON	4.7K	5%	1/4W	
R784	1-249-404-00	CARBON	82	5%	1/4W	F
R785	1-249-404-00	CARBON	82	5%	1/4W	F
R786	1-247-847-11	CARBON	4.7K	5%	1/4W	
R787	1-247-847-11	CARBON	4.7K	5%	1/4W	
R788	1-249-427-11	CARBON	6.8K	5%	1/4W	
R789	1-247-871-11	CARBON	47K	5%	1/4W	
R790	1-247-831-11	CARBON	1K	5%	1/4W	
R791	1-247-871-11	CARBON	47K	5%	1/4W	
⚠R792	1-215-891-11	METAL OXIDE	680	5%	2W	F
⚠R793	1-215-891-11	METAL OXIDE	680	5%	2W	F
R794	1-249-429-11	CARBON	10K	5%	1/4W	
R795	1-249-404-00	CARBON	82	5%	1/4W	F
R901	1-247-847-11	CARBON	4.7K	5%	1/4W	
R902	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R903	1-219-237-11	SOLID	3.3M	20%	1/2W	F
R904	1-249-435-11	CARBON	33K	5%	1/4W	
R905	1-247-863-11	CARBON	22K	5%	1/4W	
R906	1-249-421-11	CARBON	2.2K	5%	1/4W	
R907	1-249-428-11	CARBON	8.2K	5%	1/4W	
R908	1-249-422-11	CARBON	2.7K	5%	1/4W	
R909	1-249-431-11	CARBON	15K	5%	1/4W	
R910	1-249-429-11	CARBON	10K	5%	1/4W	
R911	1-247-843-11	CARBON	3.3K	5%	1/4W	
R912	1-247-831-11	CARBON	1K	5%	1/4W	
R913	1-249-404-00	CARBON	82	5%	1/4W	F
R914	1-247-847-11	CARBON	4.7K	5%	1/4W	
⚠R915	1-240-877-11	FUSIBLE	0.15	5%	1/2W	F
R916	1-249-389-11	CARBON	4.7	5%	1/4W	F
R917	1-249-429-11	CARBON	10K	5%	1/4W	
R918	1-247-831-11	CARBON	1K	5%	1/4W	
R919	1-247-871-11	CARBON	47K	5%	1/4W	
R920	1-247-871-11	CARBON	47K	5%	1/4W	
R923	1-249-429-11	CARBON	10K	5%	1/4W	
R926	1-247-791-11	CARBON	22	5%	1/4W	
R929	1-249-401-11	CARBON	47	5%	1/4W	F
R930	1-249-401-11	CARBON	47	5%	1/4W	F
		< RELAY >				
RY781	1-755-416-12	RELAY				
RY782	1-755-416-12	RELAY				
RY783	1-755-416-12	RELAY				
RY981	1-755-013-11	RELAY				
⚠RY982	1-755-276-11	RELAY, POWER				
		< TRANSFORMER >				
⚠T902	1-435-281-11	TRANSFORMER, POWER (SUB)				
		< TERMINAL BOARD >				
TM801	1-537-376-11	TERMINAL BOARD (SPEAKERS A,B)				

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2004. 05	New
1.1	2004. 10	End of the part number of 8-729-042-29 is changed to -09. (SPM-04105)
1.2	2006. 02	Color addition of silver (hair-line finish). (SPM-06013)
1.3	2006. 09	Change the MAIN, DISPLAY, VOLUME, H.PHONE, POWER, FUNCTION KEY and AC OUTLET boards. (Supplement-1) (ECN-ECB72814)
1.4	2007. 03	MAIN and DISPLAY boards change of US model. (Supplement-2) (ENG-07003)
1.5	2007. 05	Correction of part number of DISPLAY BOARD, COMPLETE and MAIN BOARD, COMPLETE of SUPPLEMENT-1. (SPM-07020)